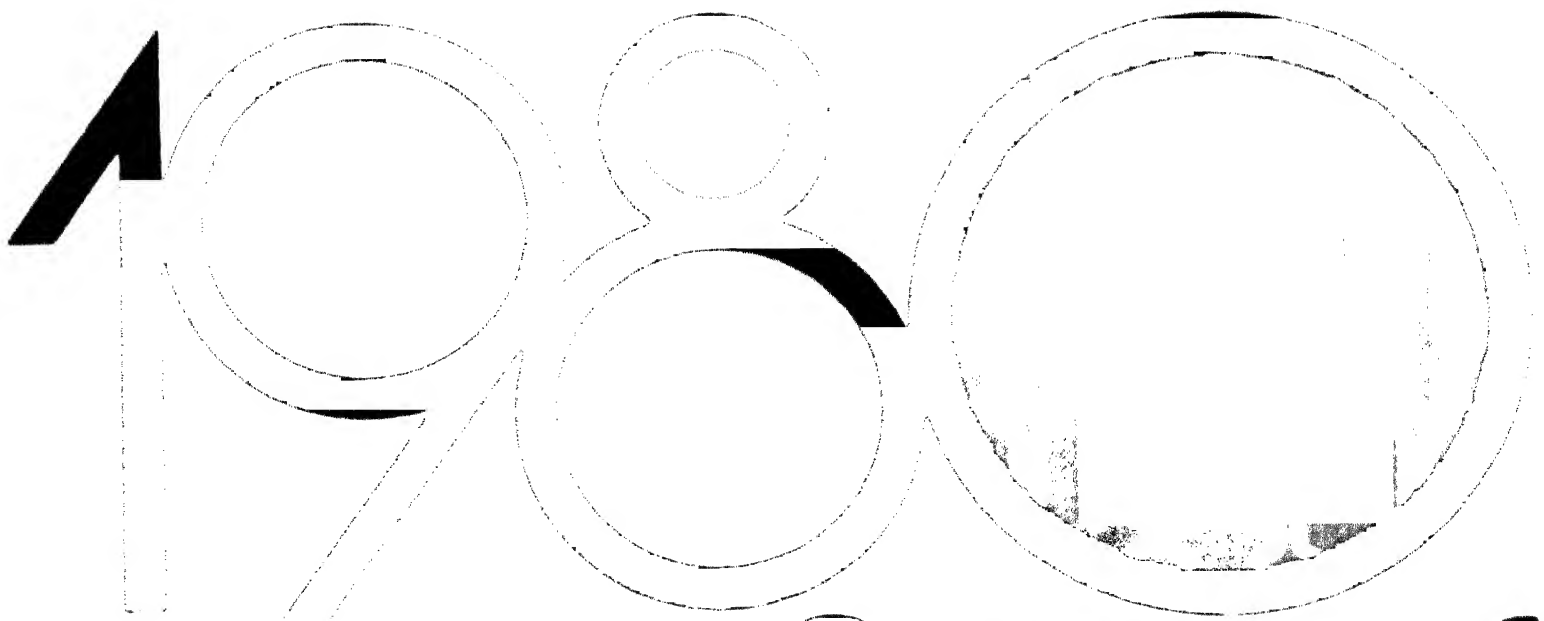
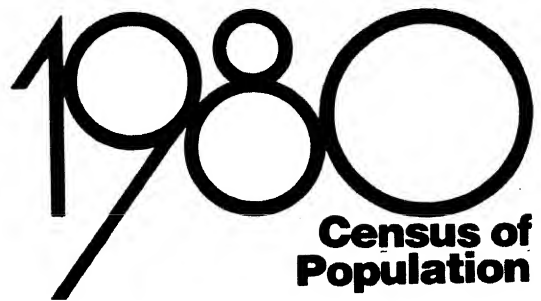


Occupation
by Industry



Census of Population

U.S. Department of Commerce
BUREAU OF THE CENSUS



VOLUME 2
SUBJECT REPORTS

Occupation by Industry

PC80-2-7C

Issued May 1984



U.S. Department of Commerce
Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
Economic Affairs

BUREAU OF THE CENSUS
John G. Keane, Director



BUREAU OF THE CENSUS

John G. Keane, Director

C. L. Kincannon, Deputy Director

POPULATION DIVISION

Roger A. Harnot, Chief

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GENERAL

This report is part of the *Subject Reports* series and presents sample data from the 1980 Census of Population on detailed occupation cross-classified by detailed industry for employed persons. Less detailed cross-classifications of occupation by industry show data for employed persons by race and Spanish origin, median age, educational attainment, percent self-employed, and mean earnings. This report also shows the last industry of experienced unemployed persons by their last occupation.

The abbreviated identification for this report is PC80-2 (i.e., Population Census, 1980-Volume 2) followed by a number and letter representing the specific report.

A large portion of the information compiled from the 1980 Census of Population appears in Volume 1, *Characteristics of the Population*, which focuses on data for States, standard metropolitan statistical areas, urbanized areas, counties, places, American Indian Reservations, and other geographic areas. For a more complete description of the 1980 census data products, see appendix E.

Legal provision for this census, which was conducted as of April 1, 1980, was made in the Act of Congress of August 31, 1954 (amended August 1957, December 1975, and October 1976), which codified Title 13, United States Code.

The content and procedures of the 1980 census were determined after evalu-

ation of the results of the 1970 census, consultation with a wide variety of users of census data, and extensive field testing. A number of changes were introduced in 1980 to improve the usefulness of the census results. The changes do not, however, affect to any appreciable extent the comparability between the 1980 census data and the 1970 census-data for most characteristics. Further information on comparability for specific subjects appears in appendix A.

More detailed information on the technical and procedural matters covered in the text of this report can be obtained by writing to the Director, Bureau of the Census, Washington, D.C. 20233. Such information will also appear in other publications of the 1980 census.

CONTENTS OF THE REPORT

This report contains text (this introduction and five appendixes), a table of contents, and detailed tables.

Each detailed table is identified by a table number and title. The "stubhead" at the left under the title defines the types of geographic areas for which data are shown in the particular table and is considered part of the table title.

Appendix A provides definitions and explanations for the subjects covered in this report. Appendix B explains the residence rules used in counting the population and describes the data collection and processing procedures. Appendix C presents information on the sources of error in the data and editing procedures. Appendix D contains facsimiles of the respondent instructions and 1980 census questionnaire pages. Appendix E summarizes the data dissemination program of the 1980 census.

SYMBOLS AND GEOGRAPHIC ABBREVIATIONS

The following symbols and geographic abbreviations may appear in the tables:

- A dash "-" represents zero or a percent which rounds to less than 0.1.
- Three dots "..." mean not applicable, or that the data are being withheld to avoid disclosure of information for individuals. (For further information on disclosure, see the section below on "Suppression of Data for Confidentiality.")
- (NA) means not available.
- SCSA is standard consolidated statistical area.
- SMSA is standard metropolitan statistical area.

SUPPRESSION OF DATA FOR CONFIDENTIALITY

To maintain the confidentiality promised respondents and required by law, the Bureau of the Census takes precautions that its published data do not disclose information about specific individuals and housing units. To accomplish this the Census Bureau suppresses data for characteristics which are based on a small number of persons and/or housing units in the geographic area. Under certain conditions, both primary and complementary suppression, as defined below, may take place.

The general rules of primary suppression of sample data are as follows: estimates of total population by race and Spanish origin are never suppressed; other characteristics for persons are shown only if there are 30 or more persons in the geographic area; estimates of total housing units, vacant housing units, year-round

Introduction

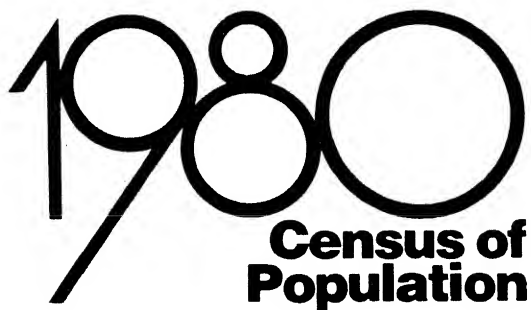
units and occupied housing units are never suppressed; characteristics of year-round housing units which are not classified by occupancy status are shown only when there are 10 or more year-round housing units in the geographic area; characteristics of families, households, or occupied housing units are shown only if there are at least 10 occupied housing units within the geographic area; and distributions of data for owners or renters

are shown only where the number of owners is at least 10 and the number of renters is also at least 10. These primary suppression criteria are applied independently of one another. The comparable figures for complete-count (100-percent) data are 15 or more persons and 5 or more housing units of the specified type.

Population and occupied housing unit characteristics cross-classified by race or

Spanish origin (of the householder in the case of occupied housing units) are subject to an additional level of examination. This level requires the 30-person or 10-housing unit criterion be applied individually to each race or Spanish origin category.

Finally, complementary suppression is applied to prevent the derivation of primary suppressed data by subtraction.



Occupation by Industry

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Total, all industries											
	Total				Race				Black		Spanish origin ¹	
	Both sexes		Male		White		Black		Male	Female	Male	Female
	Male	Female	Male	Female	Male	Female	Male	Female				
Employed persons 16 years and over	97 639 355	56 004 690	41 634 665	48 843 987	35 183 388	4 674 871	4 659 177	3 288 208	2 168 649	36.3	34.6	78.2
Managerial and professional specialty occupations	12 151 648	13 196 805	8 954 843	12 191 039	7 876 425	546 271	770 809	395 469	271 456	39.7	35.6	94.5
Executive, administrative, and managerial occupations	10 133 551	7 063 304	3 070 247	6 590 110	2 746 156	258 324	219 108	217 957	105 788	41.1	37.3	90.8
Offices and administrative, public administration	11 507 591	7 250 390	2 590 450	6 590 110	2 746 156	258 324	219 108	217 957	105 788	41.1	37.3	90.8
Financial managers	403 507	257 432	111 159	224 853	95 080	17 294	12 815	8 302	3 696	45.4	41.7	94.0
Managers, marketing, advertising, and public relations	363 507	230 320	72 683	263 361	117 132	6 683	5 841	7 386	3 742	38.8	37.5	94.0
Administrators, education and related fields	382 589	237 685	144 904	213 265	121 988	8 780	4 043	11 018	3 315	40.3	34.3	92.0
Managers, medicine and health	108 477	53 529	36 948	48 412	47 768	3 819	5 484	1 420	1 634	40.8	41.5	93.6
Other specified managers	549 555	361 901	187 654	331 115	169 707	20 507	12 521	15 174	6 635	43.0	41.2	93.6
Managers and administrators, n.e.c.	5 097 215	3 739 810	1 357 405	3 508 674	2 326 728	19 524	76 854	102 038	46 058	41.7	38.5	88.6
Salaried	4 535 735	3 329 485	1 206 250	3 128 541	1 998 636	107 573	72 854	118 358	48 058	41.7	37.5	88.6
Self-employed	561 480	410 325	151 155	380 133	138 092	11 951	4 571	15 680	5 920	45.0	45.4	77.9
Management related occupations	2 556 295	1 585 516	970 779	1 460 693	847 092	71 957	82 726	50 549	34 180	38.5	34.0	94.8
Accountants and auditors	993 327	616 955	376 372	569 182	325 750	20 422	29 368	17 969	16 746	35.1	33.2	98.7
Personnel, training, and labor relations specialists	410 366	218 196	192 701	191 239	139 389	19 780	24 979	10 415	7 700	39.5	34.8	90.6
Buyers and purchasing agents	369 126	236 116	133 010	224 260	123 030	6 788	6 844	6 481	3 641	40.0	33.7	90.4
Inspectors and compliance officers	200 876	172 346	72 536	135 267	22 426	11 373	4 071	7 035	8 441	44.2	34.4	88.0
Other management related occupations	582 600	341 909	240 691	320 725	216 497	12 114	16 464	8 619	8 452	39.5	34.8	97.0
Professional specialty occupations	12 018 097	6 133 501	5 884 596	5 600 929	5 130 249	277 947	551 701	177 512	165 648	38.1	34.8	97.2
Engineers, architects, and surveyors	1 516 917	1 444 035	72 862	1 333 573	64 149	33 868	4 614	34 155	2 449	39.5	31.2	97.9
Architects	105 079	98 462	8 610	106 949	55 983	30 634	4 280	25 369	2 081	37.6	31.7	97.0
Engineers	1 382 095	1 318 937	65 798	1 172 368	55 983	30 634	4 280	25 369	2 081	37.6	31.7	97.0
Civil engineers	200 471	194 673	13 056	175 803	4 491	4 586	1 338	3 302	1 359	37.3	29.6	96.6
Electrical and electronic engineers	319 754	303 398	13 056	279 290	13 610	7 354	1 429	5 937	1 097	38.5	32.0	96.8
Industrial engineers	190 952	172 234	18 718	162 989	16 962	4 362	1 033	3 481	622	40.4	32.3	97.5
Mechanical engineers	194 994	191 021	3 773	177 985	3 483	4 266	4 266	3 324	73	40.3	39.2	97.6
Other engineers	475 924	457 211	18 713	421 321	16 237	9 464	1 191	10 263	555	40.3	30.0	98.4
Surveyors and mapping scientists	29 743	28 636	1 087	27 256	1 010	627	44	951	93	33.7	28.8	90.3
Computer systems analysts and scientists	200 684	155 824	44 860	143 147	39 134	5 990	3 431	3 551	1 134	35.0	31.8	98.9
Operations and systems researchers and analysts	79 920	57 844	22 072	53 382	18 930	2 416	2 371	1 320	519	38.0	33.3	98.0
Mathematical scientists	45 891	28 089	17 802	25 614	15 202	1 044	1 044	576	463	36.0	32.9	99.1
Physical scientists	307 295	246 934	60 361	226 582	51 439	7 755	3 755	5 075	1 843	37.8	31.6	97.9
Chemists, except biochemists	100 458	80 513	19 945	71 026	15 849	3 548	1 417	1 700	777	37.8	32.2	98.7
Other natural scientists	206 837	166 421	40 416	155 556	35 590	4 207	2 334	3 375	1 066	36.1	31.4	97.5
Health diagnosing occupations	643 716	568 601	75 115	514 721	57 747	13 884	4 014	18 841	3 211	42.8	34.4	99.5
Health assessment and treating occupations	1 695 436	236 784	1 458 652	208 537	179 739	16 927	13 884	8 618	32 189	33.9	34.8	97.0
Registered nurses	1 266 801	51 923	1 214 868	43 687	1 071 614	5 337	89 508	2 568	24 575	32.5	35.8	97.1
Other health assessment and treating occupations	428 635	184 851	243 784	164 850	208 125	11 590	25 246	6 050	7 614	34.4	31.7	97.0
Teachers, except postsecondary	3 658 074	1 071 100	2 586 974	970 398	2 246 965	74 409	279 767	31 287	77 065	36.3	35.6	97.7
Social scientists and urban planners	212 477	133 431	79 066	124 032	70 391	5 330	6 376	3 409	2 009	38.4	33.5	98.7
Social and recreation workers	576 672	166 172	379 066	197 273	236 867	10 299	60 687	1 562	1 993	33.7	33.2	95.1
Lawyers and judges	524 806	432 494	72 312	436 660	436 796	10 299	60 687	1 562	1 993	33.7	33.2	95.1
Writers, artists, entertainers, and athletes	1 306 736	737 801	585 635	677 625	512 134	35 097	20 433	30 759	16 715	34.3	33.1	99.2
Other professional specialty occupations	1 347 533	812 332	535 021	757 365	471 636	43 687	44 975	20 763	15 387	41.1	37.3	96.8
Technical, sales, and administrative support occupations	170 593 506	10 622 048	18 971 458	9 503 823	16 646 739	712 342	1 639 737	490 111	844 445	35.8	33.5	86.0
Technicians and related support occupations	2 961 951	1 679 067	1 302 889	1 501 366	1 089 273	92 384	155 450	66 361	45 599	33.2	32.2	93.8
Health technicians and technicians	986 469	538 132	308 352	126 468	663 424	19 609	113 381	9 452	26 676	31.6	33.1	93.5
Licensed practical nurses	424 960	14 281	410 679	10 670	324 167	2 801	73 499	726	13 981	33.7	35.7	89.3
Other health technicians and technicians	541 509	143 836	397 673	115 810	339 257	16 808	39 882	8 726	12 695	31.4	31.1	93.9
Engineering and science technicians	1 104 114	896 033	208 081	810 741	179 011	43 639	17 804	37 700	9 744	33.5	30.8	89.2
Electrical and electronic technicians	260 959	231 272	29 687	206 604	23 843	12 222	3 588	9 591	2 036	33.5	32.6	94.4
Industrial and mechanical technicians	25 425	22 339	3 066	20 693	2 759	993	218	706	149	38.8	34.4	86.3
Drafting and surveying technicians	368 268	312 094	56 174	282 957	50 377	13 283	2 873	15 704	2 534	32.1	29.7	93.1
Other engineering and science technicians	449 462	330 308	119 154	300 487	102 032	17 141	11 122	11 699	5 025	34.6	30.9	91.1
Technicians, except health, engineering, and science	911 368	624 912	286 456	564 145	246 838	29 136	24 265	19 209	9 179	33.4	30.7	95.5
Algebra, pilots and navigators	74 129	73 113	1 016	71 403	943	621	26	1 140	76	39.7	33.0	94.9
Air traffic controllers and broadcast equipment operators	109 949	73 570	36 379	67 436	31 824	4 124	3 243	2 467	1 380	35.3	31.0	89.3
Computer programmers	313 179	215 825	97 354	194 816	83 075	9 795	7 550	5 960	2 633	31.4	29.7	98.4
Other technicians, except health, engineering, and science	414 111	262 404	151 707	230 290	130 976	14 596	13 246	9 642	5 088	33.4	31.3	94.0
Percent completed 4 or more years of college	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Percent self-employed	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Percent high school graduates	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Percent completed 4 or more years of college	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Percent self-employed	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries												Percent self-employed				
	Both sexes		Race				Spanish origin ¹		Median age		Percent high school graduates				Percent completed 4 or more years of college		
			Total		White								Black				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extraction occupations	292 695	286 075	6 620	5 565	265 199	777	17 198	261	33.5	32.3	62.3	74.4	5.7	8.8	2.8	2.7	
Precision production occupations	4 255 872	3 497 808	758 064	619 150	3 129 295	81 663	216 731	72 103	39.8	38.9	72.6	63.2	7.9	5.0	3.9	6.1	
Supervisors, production occupations	1 838 155	1 567 908	270 250	230 237	424 204	26 450	57 764	22 359	41.9	40.3	76.7	69.5	12.5	7.7	1.6	2.0	
Precision manufacturing occupations	987 253	927 750	59 503	47 505	175 600	7 929	51 058	5 438	34.5	34.5	76.7	69.5	2.8	4.2	2.5	4.2	
Food and kindred workers	187 550	184 230	3 297	2 768	175 600	4 404	5 133	192	41.3	34.8	77.8	69.6	3.1	3.3	1.5	0.6	
Mechanics	511 469	487 775	23 694	17 857	435 376	4 293	28 822	2 374	35.1	33.5	71.7	57.3	2.4	2.2	1.6	0.5	
Other precision metal workers	122 273	117 487	4 786	3 977	107 359	6 337	7 651	259	36.5	33.8	70.7	67.2	2.4	2.7	2.6	1.1	
Other precision metal workers	165 341	138 235	27 726	22 903	123 294	8 316	9 452	2 613	37.8	35.7	70.3	63.2	3.9	6.3	6.5	8.4	
Precision textile, apparel, and furnishings machine workers	281 441	218 495	142 851	114 135	96 531	14 498	19 777	15 981	42.8	45.8	48.0	53.1	3.1	4.2	27.1	21.2	
Precision food production occupations	401 885	319 773	97 112	73 026	270 471	13 149	33 730	7 130	36.2	36.2	60.4	56.2	2.4	1.9	5.7	4.3	
Precision inspectors, testers, and related workers	99 691	72 146	27 545	22 248	64 802	4 433	3 501	2 135	40.5	37.5	80.5	67.3	5.3	2.3	0.6	0.1	
Plant and system operators	240 354	231 774	6 730	7 453	206 297	17 975	8 577	3 529	40.2	33.1	77.0	77.9	9.3	11.0	1.0	1.0	
Other precision production occupations	416 788	280 015	156 773	124 366	225 361	18 383	22 144	18 731	34.3	34.3	68.4	64.4	6.3	3.5	14.0	2.5	
Operators, fabricators, and laborers	17 859 343	12 985 043	3 785 083	2 836 816	10 571 772	750 844	1 070 063	477 082	33.2	36.8	58.0	52.7	2.7	1.7	3.0	1.1	
Machine operators, assemblers, and inspectors	9 084 988	5 438 751	3 674 307	2 803 586	4 939 277	571 893	493 391	377 402	33.9	37.5	61.3	51.1	2.7	1.6	2.1	0.9	
Machine operators and tenders, except precision	5 960 505	3 553 079	2 407 426	1 826 754	2 874 444	471 558	330 248	261 162	34.1	37.6	37.9	46.4	2.6	1.6	1.9	1.1	
Metalworking and plastic working machine operators	715 441	590 972	124 466	104 230	517 286	15 355	41 731	7 726	34.9	37.0	61.3	56.5	1.9	1.1	1.0	0.3	
Fabricating machine operators, n.e.c.	31 820	20 940	10 880	9 430	17 772	1 958	1 098	703	33.9	38.5	60.1	56.5	1.9	1.1	1.2	0.3	
Metal and plastic processing and woodworking machine operators	360 300	283 919	76 381	62 987	236 816	35 873	10 338	21 822	33.4	35.0	54.0	53.8	2.3	1.3	3.4	1.4	
Printing machine operators	422 477	310 517	111 960	99 906	273 440	21 452	8 273	19 540	35.3	32.5	78.0	74.8	2.3	0.2	3.4	2.6	
Textile machine operators	319 598	128 603	190 995	95 551	140 222	28 304	45 995	8 357	33.5	37.0	42.0	39.4	1.5	1.0	0.7	0.9	
Textile sewing machine operators	829 080	48 372	780 708	31 765	577 308	8 004	111 267	13 459	34.1	39.1	37.5	42.2	2.2	1.0	2.7	1.0	
Laundry and dry cleaning machine operators	173 226	60 251	112 975	43 122	75 324	11 756	28 189	6 485	35.2	43.8	53.6	38.6	4.3	1.0	20.6	2.8	
Packaging and filling machine operators	101 599	49 708	51 891	38 495	39 649	7 498	8 222	5 873	32.9	38.3	57.8	50.0	2.6	2.1	0.3	0.3	
Furnace, kiln, and oven operators, except food	144 071	137 360	6 711	5 386	113 082	19 639	7 605	331	38.9	35.2	61.5	61.5	2.2	2.3	0.3	0.8	
Other specified machine operators	949 114	635 854	313 260	238 955	618 450	56 146	61 418	27 750	33.4	36.8	59.0	50.6	3.2	2.2	2.3	1.0	
Miscellaneous and not specified machine operators	1 913 779	1 286 583	627 196	510 929	1 000 909	199 963	141 950	73 660	33.7	36.7	59.3	52.5	2.5	1.6	0.9	1.0	
Fabricators, assemblers, and hand working occupations	2 299 462	1 477 024	822 438	641 504	1 211 548	173 004	118 069	82 645	32.4	35.6	61.8	56.9	2.2	1.7	3.1	0.8	
Welders and cutters	712 599	673 357	39 242	30 841	569 286	65 085	6 448	58 026	32.8	34.2	61.5	57.4	1.5	1.3	3.9	0.6	
Solders and brazers	30 510	6 625	23 885	5 272	19 283	511	2 557	1 604	32.7	35.6	53.7	55.8	2.4	0.9	0.7	0.4	
Assemblers	1 459 308	733 579	725 729	564 100	584 069	100 655	105 279	74 241	31.9	34.6	62.2	57.1	2.7	1.5	1.3	0.5	
Hand working occupations	97 045	63 463	33 582	27 280	52 921	6 753	6 092	3 315	34.6	36.1	59.7	53.8	4.8	6.2	15.6	8.6	
Production inspectors, testers, samplers, and weighers	825 021	408 648	416 373	351 232	335 328	40 477	57 214	23 180	38.6	40.3	71.9	69.9	5.4	1.7	1.0	0.1	
Graders and sorters, except agricultural	90 971	38 119	52 852	38 864	29 626	5 498	7 649	4 318	32.0	39.3	54.3	45.1	3.7	1.6	0.4	0.3	
Other production inspectors, testers, samplers, and weighers	734 050	370 529	363 521	296 464	321 639	34 979	49 565	18 862	39.3	40.4	73.7	56.9	5.6	1.7	0.3	0.1	
Transportation and material moving occupations	4 389 412	4 041 532	347 880	293 092	3 372 153	519 063	44 147	245 197	36.5	36.2	58.6	67.7	2.8	2.7	5.5	2.7	
Transportation occupations	3 289 213	3 003 067	286 146	243 776	2 508 980	389 473	35 090	173 093	37.0	36.8	59.7	69.2	3.0	2.8	3.2	3.3	
Motor vehicle operators	3 017 954	2 736 821	281 133	239 585	2 268 690	369 343	34 451	164 425	36.8	36.8	58.4	69.0	2.8	2.7	6.8	6.8	
Truck drivers	2 223 946	2 151 375	72 571	62 304	1 812 173	265 907	7 950	126 168	36.2	32.0	56.3	67.1	2.1	3.6	6.9	6.8	
Driver-sales workers	177 373	164 527	12 846	11 480	152 249	8 998	1 071	6 899	35.1	33.5	74.6	68.3	4.3	6.2	6.5	6.5	
Other motor vehicle operators	616 635	420 919	195 716	165 801	304 268	94 838	25 430	31 558	40.5	38.4	63.0	67.8	5.9	2.2	0.8	1.7	
Rail and water transportation occupations	271 259	266 246	5 013	4 191	20 130	639	8 668	216	39.3	32.1	73.1	78.7	1.9	9.9	0.8	1.8	
Material moving equipment operators	1 100 199	1 038 465	61 734	47 316	863 373	47 316	72 104	5 566	35.3	33.4	55.4	60.5	10.2	11.2	3.3	0.4	
Supervisors, material moving equipment operators	29 444	28 253	1 191	1 100	25 399	68	4 451	20	42.8	42.8	75.1	82.1	1.4	2.8	0.4	0.9	
Crane, hoist and winch operators	149 274	146 209	3 085	2 266	125 027	10 131	6 449	111	37.6	32.1	53.8	69.9	1.4	6.3	0.8	0.5	
Excavating, grading, and dozer machine operators	139 357	137 275	2 082	1 708	125 061	8 108	244	6 186	38.3	33.7	53.8	62.0	1.5	2.8	12.3	4.4	
Other material moving equipment operators	782 124	726 728	55 396	590 984	44 242	100 368	8 096	55 024	34.3	33.4	56.3	59.5	1.8	1.7	2.1	0.3	
Handlers, equipment cleaners, helpers, and laborers	4 384 943	3 504 760	880 183	688 405	2 760 342	536 612	134 804	331 475	27.5	34.3	52.2	53.2	2.6	1.6	1.4	1.1	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	9 853	8 332	1 521	1 172	7 084	1 094	321	1 693	41.1	38.8	77.0	77.9	15.4	14.4	2.8	1.4	
Helpers, craft and production	239 058	232 620	26 438	20 186	187 819	29 312	4 510	27 073	26.0	33.5	54.4	56.9	1.9	2.9	1.0	2.5	
Construction laborers	661 411	641 392	20 019	14 792	488 171	110 398	4 035	73 575	31.1	30.1	51.4	59.7	3.1	4.4	—	—	
Freight, stock, and material handlers	1 259 182	1 066 495	192 687	162 752	868 251	149 182	21 981	75 529	25—	30.2	51.6	59.7	2.5	1.8	1.1	1.6	
Garage and service station occupations, and equipment cleaners	430 031	386 790	43 241	324 993	294 993	43 051	5 463	27 087	29.2	29.2	44.7	52.8	1.8	1.5	3.8	4.3	
Hand packers and packagers	543 230	582 597	134 811	281 567	434 597	30 270	50 585	28 462	30.9	34.1	52.7	57.9	2.4	1.1	0.5	0.3	
Laborers, except construction	1 222 178	986 498	235 680	171 966	749 213	173 305	47 909	99 580	30.9	34.1	55.3	41.9	2.7	2.0	2.0	1.1	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States									
	Agriculture, forestry, and fisheries									
	Median age									
Both sexes	Total		White		Black		Spanish origin ¹		Percent high school graduates	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	18 398	11 402	6 996	6 531	252	185	372	226	79.0	70.2
Supervisors and proprietors, sales occupations	1 212	949	390	235	2	11	8	6	84.0	80.9
Sales representatives, except retail	1 212	949	390	235	2	11	8	6	84.0	80.9
Sales representatives, finance and business services	5 319	4 145	1 954	1 207	30	14	125	34	72.7	75.4
Sales representatives, commodities, except retail	9 213	5 541	3 672	3 426	165	75	197	113	63.7	76.2
Sales workers, retail and personal services	2 430	648	1 782	1 446	55	79	42	73	77.2	71.8
Cashiers	1 652	217	1 435	1 294	47	64	25	67	58.2	60.9
Other sales occupations, retail and personal services	798	431	567	352	15	15	17	6	51.1	65.5
Sales related occupations	124	99	25	19	8	6	—	—	8.8	51.0
Administrative support occupations, including clerical	89 342	11 251	78 091	73 795	562	1 679	918	2 665	74.4	87.4
Supervisors, administrative support occupations	3 167	1 569	1 369	1 476	15	52	152	68	78.5	89.0
Computer equipment operators	1 279	342	314	478	73	20	35	44	24.7	89.2
Secretaries, stenographers, and typists	27 673	433	27 240	25 690	—	—	1 027	—	15.5	5.1
Secretaries	24 310	357	23 953	22 788	—	—	32	—	21.2	8.0
Stenographers and typists	3 363	176	3 187	2 902	6	137	8	230	9.2	6.4
Receptionists	9 313	133	9 180	8 836	—	—	11	195	27.1	86.2
Other information clerks	682	183	499	470	17	23	8	7	25.1	9.4
File clerks	552	98	454	402	—	—	8	21	33.5	67.2
Other records processing occupations, except financial	1 329	252	1 077	976	17	26	25	47	11.9	7.1
Bookkeepers, accounting, and auditing clerks	25 071	1 868	23 203	22 572	9	151	159	435	83.7	88.8
Payroll and timekeeping clerks	1 142	132	1 010	911	2	2	12	124	87.1	89.9
Other financial records processing occupations	532	125	407	367	—	—	—	—	22.0	3.9
Telephone operators	164	8	156	131	—	—	—	—	75.6	0.6
Mail and message distributing occupations	584	289	295	253	58	15	5	34	7.6	2.0
Production coordinators and expeditors	642	334	308	260	26	20	26	38	21.6	4.9
Traffic, shipping, and receiving clerks	1 302	861	441	405	85	12	87	12	3.5	4.5
Stock and inventory clerks	1 132	615	517	474	38	16	21	39	68.5	84.9
Other material recording, scheduling, and distributing clerks	1 492	731	761	609	44	96	62	62	8.3	9.0
Adjusters and investigators	1 194	879	317	292	27	20	42	12	24.0	78.8
Data-entry keyers	924	67	857	759	—	—	—	—	62.7	89.6
Other administrative support occupations	11 166	2 372	8 794	8 064	145	332	233	428	20.4	32.2
Service occupations	35 862	25 451	10 411	8 181	2 138	1 605	2 495	827	11.3	49.4
Private household occupations	13 733	12 352	1 381	1 295	—	—	—	—	—	—
Gardeners	2 815	2 584	231	220	163	26	733	73	73.3	65.2
Other protective service occupations	10 918	9 768	1 150	1 075	237	26	516	45	36.7	58.9
Service occupations, except protective and household	22 129	13 099	9 030	6 886	1 738	1 579	1 762	754	19.7	66.4
Food preparation and service occupations	3 141	1 009	2 132	1 717	188	244	243	255	5.5	4.5
Health service occupations	1 066	425	641	582	110	45	25	16	41.7	50.7
Cleaning and building service occupations, except household	13 995	9 372	4 623	3 278	157	1 075	1 078	337	12.7	70.2
Personal service occupations	3 927	2 293	1 634	1 309	283	215	416	146	5.0	3.3
Farming, forestry, and fishing occupations	2 454 203	2 086 335	367 868	317 553	111 992	21 623	187 260	37 476	7.3	6.5
Precision production, craft, and repair occupations	39 174	37 379	1 795	1 344	1 564	300	4 386	177	56.9	53.9
Mechanics and repairers	21 740	21 478	262	201	863	35	2 644	31	62.2	62.2
Supervisors, mechanics and repairers	783	764	19	19	75	—	75	—	54.7	3.0
Automobile mechanics, including body	3 332	3 286	46	46	102	—	9	—	42.8	47.0
Industrial machinery repairers	3 356	3 314	42	27	102	15	436	2	54.3	63.0
Electronic repairers, communications and industrial equipment	189	176	13	7	—	—	—	—	56.2	54.8
Heating, air conditioning, and refrigeration mechanics	13 902	13 768	134	102	645	12	1 691	20	88.1	100.0
Other mechanics and repairers	9 997	8 866	431	363	291	34	937	47	6.6	6.6
Construction trades	1 274	1 238	36	36	121	3	121	13	66.4	66.4
Supervisors, construction occupations	4 163	4 076	107	98	177	3	236	40	59.4	59.4
Carpenters	706	696	8	8	17	—	84	—	74.5	55.6
Electricians	904	761	143	112	33	25	64	18	34.0	33.5
Painters, construction and maintenance	1 112	1 069	43	43	12	—	246	10	52.9	37.3
Plumbers, pipefitters, and steamfitters	1 118	1 024	94	71	74	—	190	6	80.2	100.0
Other construction trades	—	—	—	—	—	—	—	—	31.9	34.4
Percent self-employed	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	13.3	10.2	—	—	—	—	—	—	—	—
Supervisors and proprietors, sales occupations	19.8	40.3	—	—	—	—	—	—	—	—
Sales representatives, except retail	96.9	89.8	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	10.6	12.8	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	15.1	10.0	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	4.9	4.0	—	—	—	—	—	—	—	—
Cashiers	11.5	3.4	—	—	—	—	—	—	—	—
Other sales occupations, retail and personal services	1.6	6.5	—	—	—	—	—	—	—	—
Sales related occupations	17.2	28.0	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	4.9	5.4	—	—	—	—	—	—	—	—
Supervisors, administrative support occupations	3.7	4.9	—	—	—	—	—	—	—	—
Computer equipment operators	2.0	—	—	—	—	—	—	—	—	—
Secretaries, stenographers, and typists	4.6	2.9	—	—	—	—	—	—	—	—
Secretaries	5.6	3.1	—	—	—	—	—	—	—	—
Stenographers and typists	—	1.4	—	—	—	—	—	—	—	—
Receptionists	5.3	2.1	—	—	—	—	—	—	—	—
Other information clerks	20.8	5.8	—	—	—	—	—	—	—	—
File clerks	—	0.4	—	—	—	—	—	—	—	—
Other records processing occupations, except financial	5.2	1.2	—	—	—	—	—	—	—	—
Bookkeepers, accounting, and auditing clerks	10.9	11.3	—	—	—	—	—	—	—	—
Payroll and timekeeping clerks	4.5	1.6	—	—	—	—	—	—	—	—
Other financial records processing occupations	12.0	1.2	—	—	—	—	—	—	—	—
Telephone operators	—	—	—	—	—	—	—	—	—	—
Mail and message distributing occupations	—	—	—	—	—	—	—	—	—	—
Production coordinators and expeditors	—	—	—	—	—	—	—	—	—	—
Traffic, shipping, and receiving clerks	1.2	1.8	—	—	—	—	—	—	—	—
Stock and inventory clerks	0.7	3.5	—	—	—	—	—	—	—	—
Other material recording, scheduling, and distributing clerks	1.6	1.6	—	—	—	—	—	—	—	—
Adjusters and investigators	5.5	9.1	—	—	—	—	—	—	—	—
Data-entry keyers	4.7	4.2	—	—	—	—	—	—	—	—
Other administrative support occupations	—	—	—	—	—	—	—	—	—	—
Service occupations	5.1	6.1	—	—	—	—	—	—	—	—
Private household occupations	—	—	—	—	—	—	—	—	—	—
Gardeners	0.9	1.6	—	—	—	—	—	—	—	—
Other protective service occupations	0.7	9.5	—	—	—	—	—	—	—	—
Service occupations, except protective and household	9.1	6.7	—	—	—	—	—	—	—	—
Food preparation and service occupations	5.9	6.2	—	—	—	—	—	—	—	—
Health service occupations	5.4	6.9	—	—	—	—	—	—	—	—
Cleaning and building service occupations, except household	21.2	9.6	—	—	—	—	—	—	—	—
Personal service occupations	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	54.0	34.0	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	8.1	6.5	—	—	—	—	—	—	—	—
Mechanics and repairers	6.9	8.8	—	—	—	—	—	—	—	—
Supervisors, mechanics and repairers	5.2	26.3	—	—	—	—	—	—	—	—
Automobile mechanics, including body	5.2	4.3	—	—	—	—	—	—	—	—
Industrial machinery repairers	4.5	—	—	—	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	5.1	—	—	—	—	—	—	—	—	—
Other mechanics and repairers	12.9	—	—	—	—	—	—	—	—	—
Construction trades	7.1	11.9	—	—	—	—	—	—	—	—
Supervisors, construction occupations	12.5	11.8	—	—	—	—	—	—	—	—
Carpenters	10.7	13.9	—	—	—	—	—	—	—	—
Electricians	14.1	14.0	—	—	—	—	—	—	—	—
Painters, construction and maintenance	9.7	—	—	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	12.5	4.9	—	—	—	—	—	—	—	—
Other construction trades	10.4	25.5	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

oyed Persons by Occupation, Industry, and Sex: 1980—Con.

is based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

(h) sexes	Agriculture, forestry, and fisheries									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		Black		Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female						
802	741	61	55	23	72	23	33.8	30.6	59.4	42.6
7 335	6 294	1 041	725	31	733	76	35.5	36.0	63.0	50.1
4 608	4 230	378	309	25	516	31	35.6	34.4	66.1	74.3
881	842	39	842	25	111	—	32.7	31.1	51.0	77.7
36	35	1	6	—	—	—	25	25	100.0	—
673	649	24	1	—	96	—	32.0	33.6	52.7	8.3
105	102	3	3	—	—	—	39.8	25	—	—
67	56	11	34	—	15	—	36.1	25	—	—
115	50	65	50	—	—	—	44.0	38.7	—	—
1 059	538	521	401	316	42	34	30.9	37.8	52.0	66.2
172	61	111	61	—	55	—	51.3	25	—	—
510	503	7	444	5	—	—	42.4	35.0	71.6	60.0
90	70	17	70	—	—	—	30.3	35.0	57.1	43.3
109 045	89 154	19 891	66 375	14 395	16 155	3 289	31.3	34.2	43.8	43.1
24 111	18 378	5 733	13 668	4 057	2 714	818	31.8	34.4	46.9	45.5
17 271	13 372	3 899	9 481	2 714	2 510	615	34.1	34.4	44.1	43.6
464	401	63	267	37	46	14	34.1	33.1	54.6	31.4
15	8	7	—	—	8	—	30.0	30.0	—	100.0
1 068	954	114	730	88	138	—	29.6	25	43.1	59.6
194	131	63	80	57	26	5	34.3	42.0	75.6	46.0
291	226	65	173	44	24	—	34.3	33.7	51.8	60.0
205	126	79	112	60	16	—	35.9	33.3	41.3	38.0
50	—	50	—	—	—	—	—	—	—	—
570	277	293	185	19	121	9	32.8	38.8	40.8	31.1
655	607	48	481	39	39	56	38.0	33.8	60.1	68.8
4 620	3 577	1 043	2 651	657	642	165	30.7	37.8	41.4	38.6
9 139	7 065	2 074	5 002	1 512	1 450	357	31.1	33.1	43.0	46.1
5 104	4 094	1 010	3 233	728	818	128	32.7	32.5	51.7	47.7
2 856	2 847	9	2 283	7	622	—	33.4	28.6	53.1	100.0
8	—	8	—	—	—	—	—	—	—	—
1 677	897	782	687	585	113	—	31.2	32.1	48.4	53.2
350	350	211	263	134	49	28	27.2	36.4	48.6	27.0
1 781	824	957	754	616	96	75	33.8	36.8	66.2	51.6
396	237	159	198	135	4	—	30.7	33.9	69.6	59.1
1 340	675	665	556	481	92	75	35.4	37.2	65.0	49.8
44 069	42 268	1 801	32 261	1 503	6 975	127	33.2	33.2	46.5	63.7
33 592	32 551	1 041	24 961	1 202	4 712	66	33.2	33.1	47.5	65.5
33 237	31 932	305	24 713	1 066	4 688	66	33.2	32.7	47.3	65.5
31 251	30 060	1 191	23 221	1 091	4 381	66	33.2	32.6	46.9	65.5
1 055	1 023	32	914	53	—	—	34.7	30.3	65.7	56.3
931	849	82	578	32	268	—	33.6	34.1	38.5	69.5
355	319	36	252	26	26	—	33.5	46.0	46.3	58.3
10 477	10 017	460	7 296	301	109	61	33.1	33.7	43.3	58.3
49	44	5	44	—	—	—	26.1	50.0	79.5	11.4
404	372	32	289	32	—	—	32.9	33.0	39.0	75.0
2 055	1 982	73	1 746	9	117	—	35.9	25	41.6	87.7
7 989	7 619	350	5 217	255	2 089	61	32.5	33.8	43.7	51.4
40 865	28 508	12 357	20 446	8 834	5 756	2 344	26.9	34.3	38.0	39.0
184	—	—	160	—	—	—	29.7	—	—	—
720	583	137	415	78	144	—	25	37.8	56.0	49.6
2 205	2 034	171	1 521	134	458	10	26.7	27.6	39.0	49.6
6 473	5 825	648	4 317	529	1 199	100	25	33.7	46.5	29.8
756	629	127	488	80	52	3	28.6	36.2	41.5	44.1
9 707	3 175	6 532	2 054	4 650	977	1 501	26.6	36.1	32.5	35.9
20 820	16 078	4 742	11 491	3 363	2 926	668	28.5	32.2	37.6	41.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Employed persons 16 years and over															
	Total		Race				Spanish origin ¹		Median age		Percent completed 4 or more years of college		Percent self-employed		
			White		Black										
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1 028 178	904 005	124 173	838 129	110 782	33 493	8 536	52 479	5 652	34.3	32.3	14.6	15.4	2.8	1.2	
163 274	142 788	20 486	137 500	18 771	2 021	1 055	3 211	596	39.0	32.2	62.0	42.0	6.3	2.2	
90 296	76 203	14 093	73 876	12 856	1 072	783	1 656	399	40.0	33.5	49.6	32.9	7.5	2.6	
2 759	2 372	8	2 338	355	4	22	76	5	38.9	38.4	72.1	31.3	0.4	1.6	
2 951	2 876	75	2 793	67	38	—	33	5	42.7	36.9	50.9	26.7	0.7	—	
85	85	—	85	—	—	—	—	—	41.3	—	47.1	—	8.2	—	
10 154	8 709	—	8 405	1 379	174	47	242	19	38.5	33.3	49.3	28.0	16.8	9.3	
44 958	40 758	4 200	40 043	3 992	245	109	675	83	45.2	39.9	44.3	19.2	9.5	3.9	
36 816	33 991	2 825	36 150	3 783	239	109	646	83	44.7	39.3	45.7	22.0	9.5	3.9	
4 151	3 942	209	3 893	209	6	—	29	—	49.2	55.2	31.1	19.0	98.5	78.9	
29 381	21 395	7 986	20 204	7 063	611	605	622	287	37.0	31.5	56.5	41.1	1.6	0.9	
16 856	11 001	5 855	10 314	5 140	283	343	353	199	38.0	30.9	76.3	46.8	1.1	0.5	
4 439	3 450	989	3 204	848	163	103	74	50	40.1	34.1	39.8	26.3	1.2	0.5	
3 938	3 262	676	3 175	656	54	17	94	18	39.7	33.0	36.0	14.1	2.8	3.8	
2 427	2 340	87	2 231	79	61	8	94	—	40.3	30.5	8.4	28.4	0.1	—	
1 721	1 342	379	1 280	340	50	14	16	20	40.1	33.0	70.7	43.5	7.2	3.2	
72 978	66 585	6 393	63 624	5 915	949	272	1 555	197	34.6	29.8	76.2	62.0	4.9	1.1	
36 471	35 285	1 186	33 608	1 094	495	32	889	81	33.8	26.8	67.7	59.4	2.6	0.5	
89	75	14	75	14	—	—	—	—	33.6	30.0	70.7	50.0	—	—	
34 725	33 607	1 118	32 000	1 026	483	32	785	81	34.0	26.9	70.7	62.3	2.6	—	
1 325	1 284	41	1 167	41	63	—	29	10	32.6	25	75.1	70.7	1.6	—	
1 314	1 304	10	1 243	10	22	—	44	18	35.4	30.0	68.5	100.0	0.6	—	
1 479	1 411	68	1 354	68	12	—	5	9	31.8	29.6	65.7	53.3	0.5	—	
1 332	1 317	15	1 254	8	16	—	7	5	34.9	26	70.1	64.6	2.9	0.6	
29 275	28 291	984	26 982	899	370	25	646	53	34.1	27.1	18.5	3.7	1.7	—	
1 657	1 603	54	1 533	54	12	—	104	—	30.5	25	—	—	—	—	
2 159	1 795	364	1 665	343	64	6	56	14	35.3	30.4	73.0	81.0	1.6	1.9	
833	615	218	570	209	32	9	18	—	35.2	31.9	69.3	56.4	2.0	—	
189	128	61	122	61	6	—	6	—	39.9	30.4	55.5	16.4	8.6	—	
27 411	24 261	3 150	23 340	2 935	276	117	488	63	36.0	29.3	95.3	64.6	9.2	1.3	
3 667	2 823	844	2 574	709	109	70	75	44	36.0	31.2	97.4	48.5	1.8	1.2	
23 744	21 438	2 306	20 766	2 226	167	47	413	19	36.0	28.7	91.7	70.6	10.2	1.2	
64	60	4	60	4	—	—	—	—	48.6	40.0	88.3	100.0	11.7	—	
201	67	134	52	127	10	5	13	5	38.7	43.9	7.5	44.0	—	1.5	
138	19	119	119	15	10	—	5	5	54.0	44.7	26.3	49.6	—	1.7	
63	48	15	38	15	—	—	8	—	35.7	33.3	—	—	—	—	
340	332	8	327	2	14	—	5	—	32.9	31.7	39.8	75.0	—	75.0	
819	668	151	640	151	—	—	5	—	36.9	32.3	84.9	36.4	2.1	—	
24	17	7	17	7	—	—	—	—	31.1	40.0	82.4	100.0	—	—	
2 012	1 777	235	1 754	220	10	15	26	17	37.5	30.1	98.1	91.9	2.5	—	
1 991	1 421	570	1 316	487	36	58	49	13	37.6	31.9	96.8	57.5	1.6	1.2	
464	159	305	153	275	6	30	—	—	33.1	43.0	45.9	38.7	4.4	—	
151 901	65 804	86 097	60 719	77 458	3 089	5 537	2 842	3 909	34.3	32.3	25.2	10.9	1.7	0.8	
33 058	26 689	6 369	24 511	5 617	1 158	479	1 359	255	32.4	29.9	24.4	33.9	2.1	1.3	
294	241	53	200	39	27	5	8	—	33.4	30.6	32.8	24.5	2.9	—	
56	21	35	6	29	15	—	—	—	100.0	100.0	—	28.6	—	—	
238	220	18	194	10	12	5	8	—	33.7	49.3	35.9	16.7	3.2	—	
23 132	19 082	4 050	17 620	3 405	780	270	1 134	180	31.9	29.7	91.5	25.8	1.5	1.1	
2 956	2 063	1 195	1 843	161	57	31	93	5	32.7	28.9	8.9	20.0	0.5	1.0	
1 337	1 027	310	1 111	111	26	—	5	—	100.0	91.5	34.3	9.9	—	—	
7 991	6 122	1 869	5 483	1 710	343	66	427	90	31.8	30.1	15.6	22.3	1.6	1.7	
12 746	10 760	1 986	10 083	1 734	354	173	609	90	31.7	29.3	91.2	29.6	1.6	0.6	
9 632	7 366	2 266	6 691	1 973	351	204	217	75	34.0	30.1	38.1	48.8	3.7	1.6	
1 098	1 098	—	1 096	—	2	—	10	—	36.7	—	31.1	—	—	—	
234	214	59	160	51	8	—	—	6	33.9	74.9	12.0	—	—	—	
3 171	2 141	1 030	1 883	1 661	114	130	81	4	31.7	28.8	61.3	65.4	1.9	—	
5 129	3 952	1 177	3 552	1 061	227	74	126	65	34.9	31.0	28.7	36.7	5.8	3.1	
Technical, sales, and administrative support occupations															
Technicians and related support occupations															
Health technicians and technicians															
Licensed practical nurses															
Other health technicians and technicians															
Engineering and science technicians															
Electrical and electronic technicians															
Industrial and mechanical engineering technicians															
Drafting and surveying technicians															
Other engineering and science technicians															
Technicians, except health, engineering, and science															
Airplane pilots and navigators															
Air traffic controllers and broadcast equipment operators															
Computer programmers															
Other technicians, except health, engineering, and science															

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																				
Mining																				
Race					Spanish origin ¹			Median age			Percent high school graduates			Percent completed 4 or more years of college			Percent self-employed			
Total		White		Black	Male		Female	Male		Female	Male		Female	Male		Female	Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Female	
Employed persons 16 years and over—Con.																				
Technical, sales, and administrative support occupations—Con.																				
Sales occupations																				
10 327	9 480	847	743	54	342	743	60	194	21	37.6	34.7	89.0	86.4	33.3	28.0	18.3	3.2	2.1		
735	708	27	27	13	693	27	—	10	—	41.2	39.2	87.3	92.6	26.7	26.7	63.0	5.4	7.4		
695	670	25	25	13	655	25	—	10	—	41.3	39.2	86.9	100.0	50.0	50.0	48.0	—	100.0		
40	38	2	2	—	38	2	—	—	—	31.3	30.0	94.7	—	—	—	—	—	—		
561	497	64	64	—	497	64	—	—	—	38.3	29.6	95.0	90.6	52.5	52.5	37.5	6.2	—		
8 261	7 927	324	286	41	7 826	286	40	165	—	37.2	33.3	89.6	82.9	33.4	30.5	30.5	2.7	1.5		
762	734	422	366	—	734	422	20	19	21	34.9	30.8	70.3	89.9	13.8	13.8	2.8	5.9	2.6		
377	377	310	254	—	377	310	20	10	21	38.0	35.9	43.3	81.9	19.4	19.4	2.3	7.3	4.5		
385	273	112	112	—	254	112	—	9	—	37.7	42.7	76.9	85.7	12.5	12.5	4.5	—	—		
8	8	—	—	—	8	—	—	—	—	30.0	—	100.0	—	—	—	—	25.0	—		
Administrative support occupations, including clerical																				
108 516	29 435	78 881	2 085	1 877	26 866	71 098	4 998	1 289	3 633	35.9	32.6	92.7	92.7	23.3	23.3	9.0	0.9	0.7		
4 794	4 538	2 256	2 085	161	4 312	2 085	111	161	66	42.0	38.0	93.5	93.5	44.6	44.6	15.6	0.8	1.1		
4 647	4 547	2 256	2 085	161	4 312	2 085	111	161	66	42.0	38.0	93.5	93.5	44.6	44.6	15.6	0.8	1.1		
40 058	547	39 511	36 536	236	2 317	36 536	1 790	29	1 428	34.4	32.3	84.8	94.4	29.4	29.4	9.1	2.2	0.5		
37 378	480	36 898	34 491	35	434	34 491	434	29	1 428	34.4	32.3	84.8	94.4	29.4	29.4	9.1	2.2	0.5		
2 680	67	2 613	2 045	—	67	2 045	320	29	—	34.3	32.4	87.9	94.4	30.8	30.8	9.4	0.8	0.6		
1 999	32	1 967	1 718	—	32	1 718	158	—	91	51.0	28.0	62.7	91.7	19.4	19.4	11.6	—	—		
846	390	456	367	13	422	367	28	16	40	36.2	30.8	77.7	92.3	17.7	17.7	9.6	4.9	0.9		
1 784	315	1 469	1 125	46	249	1 125	214	28	198	28.7	27.5	88.6	81.6	32.2	32.2	5.1	1.6	1.4		
1 432	531	901	816	18	49	816	49	25	45	34.6	31.7	84.4	95.9	34.6	34.6	15.5	—	0.2		
Bookkeepers, accounting, and auditing clerks																				
15 134	2 411	12 723	1 688	1 24	2 236	11 816	564	91	377	38.9	35.5	93.3	93.3	34.8	34.8	8.3	1.7	1.7		
2 053	455	1 598	1 373	15	432	1 373	93	24	188	40.3	32.3	92.7	93.4	19.2	19.2	3.1	8.9	0.7		
1 143	338	805	713	5	337	713	68	38	84	42.2	32.3	92.7	93.4	39.3	39.3	4.8	—	—		
602	67	535	478	5	62	478	34	—	54	40.5	38.7	78.9	87.5	3.0	3.0	1.1	—	—		
1 300	774	526	368	239	117	368	117	70	—	27.8	25.1	78.9	80.5	2.6	2.6	0.8	0.9	—		
2 889	1 716	1 173	1 035	145	582	1 035	76	119	32	33.3	33.3	88.5	93.2	23.5	23.5	10.1	0.5	0.3		
1 220	315	905	731	217	718	616	165	217	96	34.2	31.5	75.9	89.2	13.0	13.0	7.3	0.7	0.3		
5 556	4 825	731	616	104	4 448	616	217	283	28	33.1	30.8	78.8	92.2	9.0	9.0	4.1	0.2	0.4		
4 120	2 976	1 144	1 040	104	3 71	96	37	14	15	39.4	30.8	80.6	91.6	18.1	18.1	12.0	2.5	0.8		
1 438	1 071	367	293	74	1 015	293	37	73	13	31.4	30.8	80.6	91.6	18.1	18.1	12.0	2.5	0.8		
2 871	289	2 582	2 046	536	2 871	289	455	34	33	36.7	36.7	89.6	91.8	10.7	10.7	7.0	—	—		
12 630	4 801	7 829	6 726	384	4 256	6 726	739	195	423	37.9	33.1	89.0	90.7	25.1	25.1	10.5	1.0	1.0		
Service occupations																				
17 577	15 140	2 437	1 775	1 314	13 129	1 775	404	1 126	266	40.5	38.4	56.1	52.1	3.4	3.4	3.7	0.4	0.6		
Private household occupations																				
4 579	4 325	254	203	140	4 074	203	10	168	5	48.1	39.0	48.8	55.9	—	—	—	0.4	—		
4 327	4 073	254	203	130	3 835	203	10	168	5	48.3	39.0	46.8	55.9	3.2	3.2	9.1	0.4	—		
252	252	—	—	—	252	—	—	—	—	45.3	39.0	81.3	—	8.3	8.3	—	—	—		
Other protective service occupations																				
12 998	10 815	2 183	1 572	1 174	9 239	1 572	394	958	261	37.5	38.3	59.0	51.7	3.3	3.3	3.0	0.4	0.6		
1 535	1 314	221	190	203	1 034	190	17	118	13	43.5	37.5	52.9	50.7	4.0	4.0	0.9	—	2.7		
Food preparation and service occupation																				
105	37	68	52	—	37	52	—	—	—	45.5	37.9	94.6	88.2	18.9	18.9	13.2	—	—		
Health service occupations																				
9 154	7 731	1 803	731	935	7 731	1 803	311	804	226	36.5	38.3	60.0	50.5	3.2	3.2	2.9	0.4	0.4		
Cleaning and building service occupations, except household																				
401	310	91	253	36	253	91	56	36	15	49.5	39.7	50.5	50.5	2.3	2.3	2.2	—	—		
Personal service occupations																				
694	680	14	14	33	601	14	—	66	—	32.6	26.3	57.5	100.0	8.5	8.5	—	3.2	—		
Farming, forestry, and fishing occupations																				
425 400	417 455	7 945	6 781	13 522	389 232	6 781	779	25 404	350	34.1	32.2	64.6	76.1	5.0	5.0	9.4	2.3	3.2		
74 498	73 681	817	692	1 785	69 131	692	64	4 539	61	41.7	31.6	68.2	77.8	2.5	2.5	5.4	0.9	1.6		
3 221	3 212	9	9	38	3 162	9	—	77	—	44.4	40.6	74.4	100.0	5.9	5.9	11.1	1.1	—		
6 383	6 319	64	45	241	5 775	45	14	461	45	34.0	31.9	66.1	85.9	1.6	1.6	10.9	0.9	—		
22 694	22 416	278	238	472	21 004	238	2	1 681	48	34.1	28.8	68.9	81.7	2.8	2.8	1.4	1.4	2.2		
Industrial machinery repairers																				
874	851	23	23	6	817	23	—	33	—	36.2	39.5	84.5	26.1	7.3	7.3	—	—	—		
41 059	40 631	428	371	1 016	38 139	371	39	2 281	13	36.2	26.7	80.2	100.0	0.8	0.8	7.5	0.5	1.6		
Electronic repairers, communications and industrial equipment																				
36 831	36 212	619	536	1 074	33 712	536	55	2 550	51	34.1	31.0	69.4	70.3	4.1	4.1	5.2	0.8	3.9		
3 459	3 413	46	46	34	3 297	46	—	138	—	34.5	31.0	81.0	84.8	13.7	13.7	12.5	0.5	32.6		
16 872	16 733	139	115	218	16 033	115	18	300	20	35.0	32.3	60.4	75.0	2.9	2.9	5.8	0.4	—		
Supervisors, construction occupations																				
3 278	3 188	90	72	234	2 775	72	14	173	8	32.5	29.1	57.3	83.5	2.9	2.9	—	—	—		
8 334	8 164	170	154	374	7 787	154	16	833	9	29.5	31.1	56.4	64.7	2.4	2.4	6.5	0.4	1.8		
Painters, construction and maintenance																				
Plumbers, pipefitters, and steamfitters																				
Other construction trades																				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Employed persons 16 years and over—Con.																
	Total		Race		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
			White		Male		Male		Male		Male		Male		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.																
Extraction occupations	278 532	272 905	5 627	253 843	9 407	582	16 403	206	33.4	32.3	62.3	75.6	5.7	9.2	2.8	3.0
Precision production occupations	35 539	34 657	882	32 546	1 056	78	1 912	32	39.7	33.2	70.1	81.7	6.2	17.9	3.4	6.0
Supervisors, production occupations	10 820	10 547	273	10 071	1 728	29	542	11	41.6	34.1	75.0	90.5	9.1	31.1	1.7	11.4
Precision metalworking occupations	5 463	5 420	43	4 075	255	10	414	1	35.7	29.7	73.8	53.5	3.2	18.6	0.6	25.6
Tool and die makers	96	96	—	—	—	—	—	—	38.2	—	69.8	—	—	—	—	—
Mechanists	4 482	4 459	23	4 014	238	3	290	1	35.4	28.2	73.8	43.5	3.3	—	0.2	—
Sheet metal workers	152	152	—	—	—	—	—	—	35.7	—	80.3	—	3.3	—	1.3	—
Other precision metal workers	733	713	20	634	17	7	106	5	37.4	48.3	79.2	65.0	2.9	40.0	3.2	55.0
Precision textile, apparel, and furnishings machine workers	90	55	35	41	6	3	13	—	36.7	28.5	50.9	57.1	12.7	—	—	—
Precision food production occupations	74	68	6	61	7	—	8	—	26.3	50.0	82.4	100.0	2.9	—	2.9	—
Precision inspectors, testers, and related workers	244	244	2	239	—	—	9	—	32.5	30.0	68.4	100.0	2.9	—	—	—
Plant and system operators	18 211	17 729	482	16 721	574	29	873	4	32.5	32.7	67.1	82.0	5.6	12.0	5.1	2.3
Other precision production occupations	635	594	41	538	34	7	33	—	37.3	36.8	38.7	68.3	0.8	17.1	10.9	—
Operators, fabricators, and laborers	269 332	262 138	7 194	236 948	13 514	761	19 830	531	32.5	30.8	57.9	70.1	2.2	4.4	2.0	1.2
Machine operators, assemblers, and inspectors	46 496	44 852	1 644	43 435	2 263	297	3 576	141	33.5	31.6	64.9	69.6	2.7	4.6	2.8	0.9
Machine operators and tenders, except precision	16 611	15 607	1 004	13 439	1 222	185	1 536	103	33.4	31.5	58.9	69.9	2.6	5.5	1.2	1.4
Metalworking and plastic working machine operators	2 386	2 330	56	2 090	101	16	222	3	31.8	31.2	58.7	83.9	1.8	12.5	1.7	—
Fabricating machine operators, n.e.c.	132	116	16	—	2	—	5	—	28.3	30.0	69.8	100.0	6.9	—	12.1	—
Metal and plastic processing and woodworking machine operators	793	734	59	671	42	10	54	—	32.1	25.2	48.9	69.5	1.1	—	3.5	—
Printing machine operators	501	316	185	233	62	39	42	7	29.5	28.0	88.3	82.2	—	9.7	0.6	—
Textile machine operators	241	191	50	122	29	24	24	—	41.0	32.1	44.5	54.0	6.3	—	—	—
Textile sewing machine operators	265	91	174	75	14	16	2	47	35.8	37.3	50.5	41.4	—	8.0	2.2	8.0
Laundry and dry cleaning machine operators	32	26	6	26	—	—	—	—	31.0	50.0	38.5	100.0	—	—	7.7	—
Package and filling machine operators	104	104	—	—	16	—	—	—	28.0	—	64.4	—	—	—	—	—
Parance, fan, and oven operators, except food	1 781	1 754	27	1 516	158	—	99	—	35.8	27.5	65.2	100.0	2.6	—	—	—
Other specified machine operators	10 376	9 945	431	8 471	808	80	1 105	46	33.6	32.5	57.8	72.9	3.0	3.7	1.0	—
Miscellaneous and not specified machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	24 610	24 269	341	22 243	828	66	1 785	16	33.5	32.4	67.0	74.2	1.9	2.3	4.2	—
Welders and cutters	22 504	22 340	144	20 658	647	27	1 536	2	33.9	29.1	67.2	72.2	1.9	5.6	4.5	—
Solders and brazers	52	42	10	24	—	—	18	—	31.3	36.7	26.2	60.0	—	—	—	—
Assemblers	1 591	1 591	179	1 311	172	39	222	14	28.9	36.5	67.3	75.4	2.0	—	0.6	—
Head working occupations	284	276	8	250	9	—	9	—	27.8	30.0	52.2	100.0	1.1	—	1.8	—
Production inspectors, testers, samplers, and weighers	5 275	4 976	299	4 553	203	46	255	22	33.7	31.4	73.8	63.2	6.1	4.3	1.7	—
Graders and sorters, except agricultural	363	363	62	277	7	—	26	—	31.2	35.0	63.5	79.0	11.6	8.1	0.7	—
Other production inspectors, testers, samplers, and weighers	4 912	4 675	237	4 276	196	46	229	22	33.9	30.1	74.5	59.1	5.8	3.4	1.8	—
Transportation and material moving occupations	159 340	156 595	2 745	143 921	6 708	133	10 278	155	33.4	31.8	56.1	71.3	2.0	4.8	2.3	2.0
Transportation occupations	63 574	62 248	1 326	56 079	3 457	49	4 895	56	34.0	31.8	53.8	76.5	1.9	5.7	3.3	2.3
Motor vehicle operators	53 554	52 535	1 019	47 210	2 995	45	4 113	35	33.9	31.8	53.7	73.7	1.7	4.5	3.8	3.3
Truck drivers	52 447	51 507	940	46 403	2 849	40	3 987	30	33.8	31.8	53.7	74.9	1.7	4.0	3.8	3.3
Driver-sales workers	116	110	6	72	24	—	20	—	—	30.0	65.5	100.0	—	—	7.3	—
Other motor vehicle operators	991	918	73	735	122	5	106	5	35.6	31.9	57.3	56.2	3.3	11.0	2.8	—
Rail and water transportation occupations	10 020	9 713	307	8 849	462	84	4 782	21	34.7	31.5	54.4	86.0	3.1	9.4	0.7	—
Material moving equipment operators	95 766	94 347	1 419	87 842	3 251	11	5 383	99	33.1	31.9	57.6	66.3	2.0	4.0	1.6	1.7
Supervisors, material moving equipment operators	708	707	6	680	11	—	16	—	40.0	25	76.1	100.0	9.3	—	—	—
Crane, hoist and winch operators	21 799	21 632	167	19 462	707	3	2 465	12	28.9	25	55.9	76.0	1.5	7.8	0.6	—
Excavating, grading, and dozer machine operators	24 467	24 298	169	23 108	584	7	745	12	36.9	31.2	52.6	65.7	1.2	31.0	1.6	1.2
Other material moving equipment operators	48 792	47 715	1 077	44 392	1 949	74	2 137	69	33.4	33.0	60.7	64.7	2.5	4.0	2.1	2.0
Handlers, equipment cleaners, helpers, and laborers	63 496	60 691	2 805	52 792	4 543	331	5 976	235	29.5	29.6	57.3	69.3	2.4	4.0	0.5	0.6
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	48	48	—	—	6	—	—	—	32.2	—	85.4	—	18.8	—	—	—
Helpers, craft and production	22 863	21 523	1 330	19 110	1 193	116	2 180	159	28.5	29.7	58.8	70.8	2.2	5.8	0.4	0.9
Construction laborers	4 852	4 822	87	4 046	374	31	466	17	29.3	25	57.5	44.8	2.9	—	—	—
Freight, stock, and material handlers	11 173	10 908	265	9 638	822	31	804	10	31.9	28.3	52.9	80.4	1.3	1.9	0.4	—
Garage and service station occupations, and equipment cleaners	1 136	1 117	19	933	121	—	108	—	31.6	31.8	55.4	84.2	3.6	36.8	1.6	—
Hand packers and packagers	665	586	79	483	57	—	62	—	27.6	32.8	62.8	55.7	1.0	—	1.2	—
Laborers, except construction	22 779	21 754	1 025	18 520	1 970	162	2 317	49	29.4	29.7	57.9	67.4	3.0	2.1	0.7	0.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Cont.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Construction, total																
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male	Female	Male											Female
Employed persons 16 years and over	5 739 598	5 259 832	4 797 464	4 647 090	438 746	377 758	26 234	329 569	18 054	35.0	35.0	65.2	84.3	8.0	8.4	15.7	5.5
Managerial and professional specialty occupations	529 753	473 492	56 261	445 382	52 259	11 811	2 097	13 106	1 358	40.8	36.7	86.6	92.5	35.3	23.3	14.1	6.5
Executive, administrative, and managerial occupations	393 537	347 026	46 511	331 002	43 438	8 852	1 679	9 169	1 135	41.7	37.8	82.7	91.8	26.6	17.8	18.2	5.1
Officers and administrators, public administration	10 383	10 361	222	778	204	389	18	226	—	39.1	39.8	97.6	93.0	65.9	26.3	0.1	—
Managers, marketing, advertising, and public relations	10 064	9 301	1 064	9 120	758	77	12	110	28	40.7	34.8	97.4	100.0	40.4	24.6	4.9	—
Administrators, education and related fields	473	439	34	396	34	36	—	18	—	47.2	35.0	87.9	100.0	36.4	50.0	11.8	35.3
Managers, medicine and health	12 016	10 005	—	9 500	1 773	255	130	425	46	42.4	38.0	85.9	91.7	33.7	20.1	12.9	4.9
Other specified managers	285 515	257 538	27 977	246 541	26 588	6 339	789	6 738	669	41.8	39.5	81.3	90.2	24.8	14.0	23.2	7.5
Managers and administrators, n.e.c.	221 989	197 220	24 769	188 919	23 527	4 558	717	4 821	537	42.0	39.1	83.8	91.1	28.5	13.9	—	—
Self-employed	63 526	60 318	3 208	57 497	3 061	1 781	72	1 917	132	41.0	42.9	73.3	83.7	12.8	14.9	99.2	65.1
Management-related occupations	68 124	54 052	14 072	50 678	12 717	1 686	723	1 495	392	39.8	34.0	89.4	91.7	31.4	23.8	2.3	1.3
Accountants and auditors	24 830	15 587	9 243	14 637	8 462	318	283	359	260	35.8	34.3	98.4	95.6	62.9	26.7	1.1	0.4
Personnel, training, and labor relations specialists	7 736	6 333	1 403	5 890	1 184	296	174	220	67	41.1	33.8	77.7	92.0	23.0	28.9	6.6	0.7
Buyers and purchasing agents	10 577	8 618	1 959	8 297	1 805	147	100	234	41	39.6	33.2	91.7	92.0	23.8	11.9	1.4	3.6
Inspectors and compliance officers	21 350	20 603	747	19 148	619	780	113	622	619	42.2	31.9	85.2	91.7	10.8	10.4	1.5	0.3
Other management-related occupations	3 631	2 911	720	2 706	647	145	53	60	24	40.0	35.3	90.1	96.5	49.2	24.0	8.2	5.1
Professional specialty occupations	136 216	126 466	9 750	114 380	8 801	2 959	418	3 937	223	38.3	32.7	97.2	95.8	58.9	49.1	3.1	12.9
Engineers, architects, and surveyors	110 808	97 697	3 111	97 349	2 674	2 199	183	3 114	71	38.8	31.0	97.6	96.8	60.8	49.0	2.2	1.6
Architects	4 545	4 188	357	3 807	299	68	33	217	11	38.1	34.1	97.0	96.1	75.4	66.1	10.5	5.9
Engineers	103 291	100 635	2 656	90 917	2 294	2 004	142	2 235	51	38.9	30.7	97.8	97.4	61.6	48.3	1.9	1.1
Civil engineers	79 858	77 858	2 000	6 444	1 742	1 487	90	2 235	33	38.9	30.2	98.0	98.2	63.1	50.8	1.6	1.4
Electrical and electronic engineers	7 147	7 005	1 627	6 259	1 142	199	16	249	—	39.1	31.1	98.7	100.0	60.5	43.7	3.3	—
Industrial engineers	3 689	3 538	131	3 110	128	121	23	60	—	39.2	32.9	97.4	96.5	38.4	41.7	0.7	—
Mechanical engineers	5 531	5 423	523	4 716	52	82	13	104	13	40.1	32.2	97.1	88.0	62.1	51.9	2.4	—
Other engineers	7 066	6 811	253	6 128	228	115	5	138	5	38.2	32.6	97.5	94.5	57.6	34.1	3.5	—
Surveyors and mapping scientists	2 972	2 874	98	2 625	81	127	8	111	9	33.3	25—	91.6	81.6	11.5	5.1	2.7	2.0
Computer systems analysts and scientists	1 500	1 166	334	1 078	307	20	7	50	—	34.6	31.1	97.3	96.4	60.8	56.3	0.9	—
Operations and systems researchers and analysts	240	174	196	683	184	10	—	6	—	40.2	30.8	97.5	100.0	56.1	40.3	1.9	—
Mathematical scientists	245	173	72	168	67	—	—	10	—	38.8	32.9	100.0	100.0	71.7	41.7	2.9	—
Natural scientists	3 094	2 703	391	2 552	333	71	33	51	6	33.4	29.3	96.6	100.0	70.8	76.2	3.0	5.6
Chemists, except biochemists	2 471	2 384	77	2 299	71	24	24	10	—	35.3	31.1	98.7	100.0	68.3	94.8	—	—
Other natural scientists	2 623	2 309	314	2 223	262	47	33	41	6	33.1	28.8	96.3	100.0	71.2	71.7	3.6	7.0
Health diagnosing occupations	111	80	31	74	13	6	18	—	—	51.0	25—	77.5	100.0	67.5	—	—	—
Health assessment and training occupations	525	175	350	168	305	7	7	—	—	34.1	42.7	96.0	98.3	20.0	32.9	1.1	3.7
Registered nurses	326	51	275	51	249	26	26	—	—	33.2	44.1	100.0	100.0	33.2	32.7	2.5	2.5
Other health assessment and training occupations	199	124	75	117	56	7	13	—	—	35.0	33.2	94.4	92.0	26.6	33.3	1.6	8.0
Teachers, except postsecondary	584	501	83	439	68	62	15	—	—	38.3	35.7	87.8	79.5	23.4	27.7	13.6	48.2
Social scientists and urban planners	1 365	1 012	353	948	329	45	18	35	—	36.2	31.0	99.3	97.7	81.6	59.8	3.9	1.7
Social and recreation workers	1 193	1 143	50	92	44	38	6	16	12	39.5	29.6	100.0	100.0	53.8	40.0	7.0	—
Lawyers and judges	1 214	1 084	130	1 063	130	11	—	20	—	38.2	31.6	97.7	94.5	98.4	95.4	4.2	—
Writers, artists, entertainers, and athletes	15 068	10 596	4 472	9 408	4 193	448	88	622	134	36.4	34.8	93.7	94.5	33.1	46.0	11.9	25.2
Other professional specialty occupations	589	412	177	358	154	42	11	13	—	36.8	38.1	84.0	100.0	47.3	66.7	5.1	—
Technical, sales, and administrative support occupations	530 490	201 564	328 926	187 717	309 986	7 033	10 946	7 243	10 219	36.3	35.6	86.9	88.5	20.2	6.3	5.0	2.7
Technicians and related support occupations	99 942	90 432	9 510	83 990	8 549	2 695	604	3 318	327	34.6	29.7	91.1	94.5	20.7	21.6	3.5	1.9
Health technologists and technicians	22	194	98	90	90	17	8	15	—	33.5	41.8	89.2	87.8	36.1	15.3	—	—
Librarians	196	163	31	63	31	—	2	10	—	33.6	40.2	67.7	81.5	9.7	12.3	—	—
Other health technologists and technicians	90 773	83 400	7 373	77 620	6 718	2 323	398	3 010	241	34.7	29.4	91.2	94.1	20.4	19.3	3.6	2.1
Engineering and science technicians	3 528	3 276	252	2 988	199	130	42	130	36	33.6	30.6	92.2	93.7	11.5	12.3	3.0	6.0
Electrical and electronic technicians	427	383	44	350	36	12	8	6	—	40.1	48.3	83.3	100.0	41.0	41.0	6.8	13.6
Industrial and mechanical engineering technicians	35 775	31 803	3 972	28 548	3 642	1 323	164	1 863	171	31.5	28.4	91.2	93.2	12.3	19.3	2.2	19.6
Drafting and surveying technicians	51 043	47 938	3 105	45 734	2 841	858	184	1 011	67	38.2	30.5	91.2	94.4	26.2	20.2	4.3	1.5
Other engineering and science technicians	8 877	6 838	2 039	6 190	1 741	355	198	293	86	33.0	30.1	90.3	96.6	24.6	30.2	3.2	1.3
Technicians, except health, engineering, and science	374	367	7	362	7	—	—	—	—	34.9	40.0	98.1	100.0	30.5	—	—	—
Airplane pilots and navigators	969	748	221	748	185	7	36	44	—	36.7	35.5	75.1	83.3	10.8	2.7	5.2	1.4
Air traffic controllers and broadcast equipment operators	2 802	1 827	975	1 625	846	82	74	87	44	31.4	29.2	97.5	98.8	48.4	34.7	1.2	1.6
Computer programmers	4 732	3 896	830	3 478	703	266	88	162	42	33.1	30.4	89.2	97.6	15.6	32.5	4.0	1.0
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Construction, total											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Black						
Technical, sales, and administrative support occupations—Con.												
Sales occupations	54 913	47 116	7 797	45 695	7 081	747	913	283	39.9	35.1	86.1	77.3
Supervisors and proprietors, sales occupations	5 842	5 452	390	5 278	13	98	62	—	39.2	37.8	83.4	89.7
Salaries	4 931	4 621	310	4 469	260	98	44	—	38.6	35.1	85.4	91.0
Self-employed	41 987	37 517	4 470	36 468	4 174	525	797	144	42.3	44.0	72.4	85.0
Sales representatives, finance and business services	2 075	2 037	38	2 008	18	24	11	—	41.0	37.1	86.8	82.8
Sales representatives, commodities, except retail	4 923	2 033	2 890	1 891	2 496	96	43	82	32.6	30.8	98.2	100.0
Sales workers, retail and personal services	1 314	480	834	1 115	697	56	8	39	31.6	31.3	55.8	76.0
Cashiers	3 609	1 553	2 056	1 467	1 799	40	35	43	32.8	30.6	72.7	83.1
Other sales occupations, retail and personal services	86	57	29	50	29	4	—	—	31.9	25—	86.0	100.0
Sales related occupations	375 635	64 016	311 619	58 042	294 356	3 591	3 012	9 659	36.2	35.9	81.6	88.6
Administrative support occupations, including clerical	15 562	8 087	7 475	7 513	7 086	314	277	155	40.5	39.3	83.4	92.1
Supervisors, administrative support occupations	5 758	1 797	3 961	1 571	3 397	95	112	138	30.7	29.8	92.8	94.6
Computer equipment operators	152 542	2 309	150 233	2 153	142 446	109	128	4 766	39.5	34.4	82.8	90.0
Secretaries, stenographers, and typists	141 082	1 915	139 167	1 394	133 082	37	102	4 328	41.1	34.5	84.2	90.1
Stenographers and typists	8 187	394	7 793	304	7 489	58	26	438	28.9	33.1	75.9	89.1
Receptionists	2 780	582	2 198	1 543	7 320	30	26	101	41.4	42.5	58.6	70.1
Other information clerks	3 102	548	2 554	2 176	2 176	89	28	102	29.3	27.8	78.3	78.9
File clerks	2 885	1 431	1 454	1 319	1 242	88	98	65	34.4	32.3	78.1	87.6
Other records processing occupations, except financial	93 263	8 364	84 899	7 891	82 094	182	335	1 878	41.9	40.0	88.7	89.1
Bookkeepers, accounting, and auditing clerks	10 764	3 034	7 730	2 885	7 406	93	81	308	33.5	34.2	83.5	89.4
Payroll and timekeeping clerks	3 124	853	2 271	816	2 085	8	26	81	40.4	36.8	88.7	91.8
Other financial records processing occupations	1 529	206	1 323	1 173	1 214	174	16	40	32.1	42.7	67.0	76.2
Telephone operators	2 623	1 694	929	1 321	800	27	117	27	25.1	29.7	65.9	68.7
Mail and message distributing occupations	7 876	5 833	2 043	5 350	1 820	280	208	83	34.2	32.0	84.7	85.6
Production coordinators and expeditors	2 957	2 467	490	1 944	559	399	228	35	31.1	30.9	71.7	76.5
Traffic, shipping, and receiving clerks	8 106	6 581	1 525	5 810	1 359	580	358	81	33.7	31.8	69.9	85.2
Stock and inventory clerks	4 194	3 054	1 140	2 793	1 073	169	104	88	36.9	33.4	76.5	78.9
Other material recording, scheduling, and distributing clerks	3 978	3 010	968	2 803	902	155	129	25	37.7	33.2	80.1	95.2
Adapters and investigators	4 089	3 62	3 727	3 153	262	70	29	259	37.8	29.6	88.7	92.9
Data-entry keyers	42 316	13 659	28 657	12 337	26 306	727	692	1 045	36.1	37.9	83.8	82.9
Other administrative support occupations	45 324	35 271	10 053	27 314	6 691	6 054	2 869	998	39.5	40.0	49.3	49.0
Service occupations	7 870	7 230	640	6 115	446	783	—	—	50.2	35.2	52.5	70.0
Private household occupations	7 353	6 743	610	5 679	435	766	358	14	51.0	35.8	50.8	68.5
Protective service occupations	37 454	28 041	9 413	21 199	6 245	5 271	2 511	984	42.7	25—	77.0	100.0
Guards	1 840	924	916	631	567	247	72	98	37.5	40.4	48.4	47.6
Other protective service occupations	33 419	25 921	7 498	19 624	5 002	4 803	2 351	876	34.3	32.5	51.2	47.1
Service occupations, except protective and household	1 797	1 022	775	801	534	203	79	49	36.6	39.9	48.0	45.1
Food preparation and service occupation	9 059	8 685	374	6 802	349	1 229	1 007	19	42.6	44.3	53.7	65.2
Health service occupations	3 304 702	3 254 107	50 595	2 951 065	43 738	183 925	187 891	2 795	34.9	32.8	66.2	70.4
Cleaning and building service occupations, except household	181 595	179 823	1 772	167 107	1 500	7 468	8 021	93	35.0	31.8	67.2	69.9
Personal service occupations	6 432	6 355	77	6 157	69	93	86	—	43.3	42.9	71.5	62.3
Farming, forestry, and fishing occupations	16 849	16 730	119	15 293	89	814	749	15	35.6	25—	58.1	74.8
Other service occupations	9 677	9 556	121	8 964	102	351	335	15	36.4	30.7	62.7	75.2
Electronics, communications and industrial equipment	3 800	3 717	83	3 450	64	184	195	—	32.6	28.3	80.0	65.1
Heating, air conditioning, and refrigeration mechanics	42 325	42 061	264	39 483	232	1 349	2 249	9	32.7	31.4	75.1	65.2
Other mechanics and repairs	102 512	101 404	1 108	93 760	944	4 677	4 407	55	35.8	32.0	65.1	70.8
Construction trades	3 037 683	2 990 646	47 037	2 706 818	40 658	172 599	176 164	2 610	34.8	32.9	66.0	70.4
Supervisors, construction occupations	646 475	637 047	9 428	597 102	8 436	23 466	26 486	402	40.9	39.5	72.4	79.7
Carpenters	887 802	877 706	10 096	809 027	8 571	38 131	45 764	597	33.2	30.7	66.0	70.1
Electricians	275 650	272 586	3 064	256 427	2 594	316	10 255	195	33.8	29.8	80.8	72.4
Painters, construction and maintenance	250 109	238 668	11 241	209 032	9 974	16 606	22 477	629	34.6	32.8	54.9	67.8
Plumbers, pipefitters, and steamfitters	280 353	277 741	2 612	255 563	2 146	13 680	14 224	174	35.3	32.1	69.5	73.9
Other construction trades	697 294	686 698	10 596	579 667	8 937	71 466	56 958	613	32.6	31.5	56.9	63.7
Persons of Spanish origin may be of any race.												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Construction, total									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female						
Precision production, craft, and repair occupations—Con.										
Extraction occupations	3 506	3 451	55	55	3 003	1 525	355	166	199	92
Precision production occupations	81 918	80 187	1 731	1 525	74 137	70 662	3 503	3 003	3 507	3 507
Supervisors, production occupations	18 513	17 989	524	462	16 976	16 527	804	524	2 137	2 137
Precision production occupations	50 777	50 294	483	406	46 907	46 887	1 869	1 525	2 137	2 137
Tool and die makers	359	346	13	13	330	13	4	4	319	319
Mechanics	4 824	4 752	72	58	4 780	4 694	406	14	319	319
Sheet metal workers	36 145	35 849	296	264	33 640	33 583	1 143	102	281	281
Other precision metal workers	9 449	9 421	222	214	8 754	8 754	316	24	281	281
Precision textile, apparel, and furnishings machine workers	643	643	69	69	508	508	47	28	18	18
Precision food production occupations	630	630	561	561	508	508	47	28	18	18
Precision inspectors, testers, and related workers	1 994	1 897	97	83	1 750	1 750	551	5	294	294
Plant and system operators	6 903	6 746	157	152	5 871	5 871	551	16	227	227
Other precision production occupations	2 458	2 279	179	163	2 046	2 046	125	5	227	227
Operators, fabricators, and laborers	1 320 270	1 286 713	33 557	25 723	1 048 810	1 048 810	167 706	5 775	117 453	117 453
Machine operators, assemblers, and inspectors	151 158	145 289	5 869	4 446	124 550	124 550	13 055	977	11 784	11 784
Machine operators and tenders, except precision	47 845	45 092	2 753	2 155	36 179	36 179	6 406	411	4 241	4 241
Metallurgy and plastic working machine operators	4 464	4 295	169	114	3 692	3 692	24	24	378	378
Fabricating machine operators, n.e.c.	392	374	18	18	320	320	17	—	28	28
Metal and plastic processing and woodworking machine operators	2 639	2 473	166	142	2 063	2 063	227	9	239	239
Printing machine operators	925	707	218	201	563	563	96	17	30	30
Textile machine operators	354	310	44	33	227	227	67	11	12	12
Textile sewing machine operators	582	405	177	128	346	346	51	18	11	11
Laundry and dry cleaning machine operators	102	102	—	—	74	74	28	—	—	—
Polishing and finishing machine operators	1 177	1 177	20	15	93	93	58	5	45	45
Food, drink, and tobacco machine operators	1 147	1 129	20	16	907	907	192	65	72	72
Other machine operators	9 906	9 565	653	546	7 001	7 001	1 532	258	1 302	1 302
Miscellaneous and not specified machine operators	27 065	25 777	1 268	942	20 796	20 796	3 680	258	2 124	2 124
Fabricators, assemblers, and hand working occupations	98 736	96 041	2 495	1 840	84 648	84 648	6 353	500	7 428	7 428
Welders and cutters	86 595	85 497	1 098	849	75 708	75 708	5 352	174	6 403	6 403
Solders and brazers	9 731	8 374	1 357	938	7 001	7 001	783	303	36	36
Assemblers	2 218	2 033	185	161	1 731	1 731	218	44	178	178
Hand working occupations	4 577	4 156	421	331	3 723	3 723	348	46	115	115
Production inspectors, testers, samplers, and weighers	379	330	49	13	275	275	40	36	23	23
Graders and sorters, except agricultural	—	—	—	—	—	—	—	—	—	—
Other production inspectors, testers, samplers, and weighers	4 198	3 826	372	318	3 448	3 448	308	30	92	92
Transportation and material moving occupations	465 228	458 557	6 671	400 103	400 103	400 103	41 524	896	26 203	26 203
Transportation occupations	174 188	170 741	3 447	2 246	142 246	142 246	22 322	440	10 270	10 270
Motor vehicle operators	168 730	165 388	3 342	137 362	137 362	137 362	22 007	453	10 142	10 142
Truck drivers	165 055	161 947	3 108	134 712	134 712	134 712	21 419	430	9 775	9 775
Driver-sales workers	442	419	23	23	350	350	64	23	23	23
Other motor vehicle operators	3 233	3 022	211	200	188	188	524	23	344	344
Rail and water transportation occupations	5 458	5 353	105	884	83	83	315	9	128	128
Material moving equipment operators	291 040	287 816	3 224	257 857	257 857	257 857	19 202	436	15 933	15 933
Supervisors, material moving equipment operators	2 268	2 205	63	63	2 099	2 099	38	—	117	117
Crane, hoist and winch operators	25 662	25 467	195	23 334	169	169	1 499	16	943	943
Excavating, grading, and dozer machine operators	86 769	85 810	959	78 601	853	853	4 712	55	4 045	4 045
Other material moving equipment operators	176 341	174 334	2 007	153 823	1 463	1 463	12 953	365	10 828	10 828
Handlers, equipment cleaners, helpers, and laborers	703 884	682 867	21 017	524 157	15 873	15 873	113 127	3 902	79 466	79 466
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	677	654	23	597	16	16	50	7	14	14
Helpers, craft and production	87 278	84 506	2 772	69 605	2 288	2 288	9 380	299	10 077	10 077
Construction laborers	604 312	586 841	17 471	445 458	12 961	12 961	101 804	3 484	68 578	68 578
Freight, stock, and material handlers	7 576	7 319	257	5 610	232	232	1 427	19	1 400	1 400
Garage and service station occupations, and equipment cleaners	2 972	2 813	159	2 308	121	121	357	38	243	243
Hand packers and packagers	1 069	734	335	579	255	255	109	55	114	114
Laborers, except construction	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Construction, government workers												Percent self-employed		
	Race				Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college				
	Total		White										Black		
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	496 967	456 936	40 031	392 125	32 817	46 557	5 491	22 944	1 754	42.0	34.5	59.9	86.3	8.5	8.6
Managerial and professional specialty occupations	79 869	74 189	5 480	68 838	4 833	2 571	562	2 035	150	44.0	36.6	87.5	75.5	36.2	29.9
Executive, administrative, and managerial occupations	41 368	37 747	3 621	35 055	3 041	1 717	432	1 036	98	46.6	40.1	77.7	94.7	16.7	16.8
Officials and administrators, public administration	10 554	10 332	222	9 749	204	389	18	226	6	49.7	40.7	60.8	92.3	7.3	13.1
Financial managers	213	186	27	170	27	13	—	3	—	44.6	50.0	100.0	100.0	75.8	22.2
Managers, marketing, advertising, and public relations	54	54	—	54	—	—	—	—	—	39.7	—	74.1	—	14.8	—
Administrators, education and related fields	70	60	10	52	10	8	—	—	—	41.8	25	100.0	100.0	76.7	100.0
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	1 883	1 500	383	1 402	282	58	66	62	3	46.5	39.9	93.5	97.9	44.6	23.0
Managers and administrators, n.e.c.	9 543	8 401	942	7 769	810	597	105	267	26	46.7	41.7	77.2	93.3	26.1	16.6
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations	19 051	17 014	2 037	15 859	1 708	652	243	478	63	44.1	38.8	86.5	94.9	14.4	15.8
Accountants and auditors	2 238	1 293	945	1 197	822	32	62	72	19	39.9	42.8	94.5	96.0	52.5	19.3
Personnel, training, and labor relations specialists	1 383	986	397	895	326	76	52	50	31	47.8	38.9	76.6	93.7	20.8	15.9
Buyers and purchasing agents	722	497	225	478	169	12	52	14	—	49.2	38.3	88.5	96.4	11.5	4.9
Inspectors and compliance officers	14 178	13 827	351	12 895	302	527	47	338	—	44.0	30.5	86.2	92.0	9.3	9.4
Other management related occupations	530	411	119	394	89	5	30	4	13	43.0	35.4	93.4	95.8	52.3	26.9
Professional specialty occupations	38 501	36 442	2 059	33 783	1 792	854	180	999	52	41.4	32.1	97.7	97.0	56.3	52.8
Engineers, architects, and surveyors	33 062	32 068	994	29 738	880	640	39	896	19	42.1	31.3	97.8	96.6	55.7	42.3
Architects	771	673	98	611	63	22	15	43	6	31.3	32.2	98.2	91.8	88.4	68.4
Engineers	30 713	29 879	834	27 761	772	547	16	812	4	42.4	31.2	98.0	97.2	57.4	41.7
Civil engineers	27 345	26 675	670	24 773	623	487	6	730	4	42.3	31.2	98.2	98.1	58.2	43.3
Electrical and electronic engineers	842	822	20	738	15	30	—	30	—	43.8	31.7	95.3	75.0	73.7	25.0
Industrial engineers	437	410	27	397	17	9	—	13	—	42.9	34.0	94.6	100.0	35.1	77.8
Mechanical engineers	534	534	—	490	—	21	—	6	—	43.2	—	97.0	—	70.0	—
Other engineers	1 438	1 117	117	1 363	117	45	—	33	—	42.3	33.0	96.4	95.7	34.5	27.4
Surveyors and mapping scientists	1 578	1 516	62	1 366	45	71	8	41	9	35.6	25	93.5	95.2	9.0	8.1
Computer systems analysts and scientists	345	260	85	249	78	9	7	4	—	36.0	32.4	100.0	100.0	58.8	57.6
Operations and systems researchers and analysts	178	130	48	122	42	8	—	—	—	49.3	37.5	96.2	100.0	39.6	39.6
Mathematical scientists	145	101	44	96	32	—	—	3	—	38.4	34.6	100.0	100.0	67.3	38.6
Natural scientists	1 843	1 605	238	1 516	185	47	28	18	6	33.5	29.7	98.3	100.0	75.9	75.6
Chemists, except biochemists	172	154	18	137	12	7	—	5	—	38.1	32.5	96.8	100.0	82.5	100.0
Other natural scientists	1 671	1 451	220	1 379	173	40	28	13	6	33.2	29.5	98.4	100.0	75.2	73.6
Health diagnosing occupations	14	14	—	14	—	—	—	—	—	55.0	—	100.0	—	85.7	—
Health assessment and treating occupations	69	17	52	10	40	7	12	—	—	49.7	58.8	58.8	100.0	—	88.5
Registered nurses	42	2	40	2	34	7	6	—	—	40.0	51.9	100.0	100.0	—	100.0
Other health assessment and treating occupations	27	15	12	8	6	—	—	—	—	25.8	40.0	53.3	100.0	—	—
Teachers, except postsecondary	133	116	17	96	7	20	10	—	—	35.0	36.5	92.2	100.0	18.1	58.8
Social scientists and urban planners	406	323	83	292	80	12	3	18	—	32.8	29.6	100.0	90.4	76.3	75.9
Social and recreation workers	84	58	36	37	20	21	6	—	12	33.6	33.7	94.8	80.8	65.5	57.7
Lawyers and judges	234	231	63	181	83	—	—	7	—	38.7	33.0	100.0	100.0	96.4	92.8
Writers, artists, entertainers, and athletes	1 681	1 339	342	1 230	305	74	23	48	15	39.7	35.8	95.1	93.6	31.6	46.5
Other professional specialty occupations	207	160	47	132	33	16	2	5	—	33.1	46.0	91.3	100.0	62.5	68.1
Technical, sales, and administrative support occupations	53 757	27 981	25 231	22 320	1 623	2 587	1 154	933	38.9	35.6	88.1	92.4	92.0	13.6	5.5
Technicians and related support occupations	19 565	17 211	2 354	15 615	2 069	846	216	719	92	36.3	30.6	92.4	95.9	13.5	15.9
Health technologists and technicians	48	30	18	30	12	—	6	5	—	33.3	47.5	100.0	100.0	93.3	33.3
Licensed practical nurses	3	3	—	3	—	—	—	—	—	30.0	—	100.0	—	100.0	—
Other health technologists and technicians	45	27	18	27	12	—	6	5	—	34.0	47.5	100.0	100.0	92.6	33.3
Engineering and science technicians	17 300	15 543	1 757	14 126	1 545	727	159	654	63	36.2	30.2	93.2	96.2	12.4	13.8
Electrical and electronic technicians	467	414	53	377	39	17	14	11	—	39.0	47.4	95.2	98.1	16.4	16.4
Industrial and mechanical engineering technicians	83	55	28	35	20	6	8	—	—	48.1	55.0	70.9	100.0	38.2	—
Drafting and surveying technicians	9 381	8 433	948	7 681	852	385	54	384	43	34.4	30.4	92.1	95.6	72.1	11.7
Other engineering and science technicians	7 369	6 641	728	6 033	634	319	83	259	20	38.5	28.9	94.7	96.8	18.2	18.0
Technicians, except health, engineering, and science	2 217	1 638	579	1 459	512	119	51	60	29	37.9	31.7	85.0	94.6	23.1	21.8
Airplane pilots and navigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	509	352	157	337	134	6	23	2	—	43.7	32.4	61.4	80.3	4.0	3.8
Computer programmers	486	382	104	354	74	26	19	5	12	33.1	32.5	97.4	100.0	50.3	31.7
Other technicians, except health, engineering, and science	1 222	904	318	768	304	87	9	53	17	38.8	31.0	88.9	100.0	19.1	27.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristic

s by Occupation, Industry, and Sex: 1980—Con.

e Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Construction, government workers																
Occupation	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	White		Black													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.																
Sales occupations	452	182	424	145	14	37	9	10	47.4	41.9	73.7	89.6	10.0	—	—	—
Supervisors and proprietors, sales occupations	90	—	85	—	—	—	—	—	46.8	—	88.9	—	16.7	—	—	—
Self-employed	135	56	132	49	3	7	—	—	53.1	46.9	69.6	100.0	5.9	—	—	—
Sales representatives, finance and business services	341	215	195	96	11	30	9	10	43.8	38.7	68.4	84.9	4.7	—	—	—
Sales representatives, commodities, except retail	170	116	43	86	11	30	9	10	52.1	38.0	61.1	83.6	9.3	—	—	—
Cashiers	171	161	152	10	—	—	9	—	38.8	40.0	100.0	100.0	100.0	—	—	—
Other sales occupations, retail and personal services	12	—	12	—	—	—	—	—	30.0	—	—	—	—	—	—	—
Sales related occupations	33 558	10 318	9 192	20 106	763	2 334	426	831	43.3	36.4	81.5	91.6	13.8	4.5	—	—
Administrative support occupations, including clerical	2 370	23	1 312	30	97	38	36	36	45.7	44.9	82.5	94.9	18.1	5.3	—	—
Supervisors, administrative support occupations	240	240	213	270	40	163	12	12	38.9	32.0	97.5	91.8	29.6	1.8	—	—
Computer equipment operators	520	267	10 704	209	14	48	12	487	42.0	35.1	68.5	92.7	7.1	4.4	—	—
Secretaries, stenographers, and typists	12 559	267	10 704	209	14	48	12	487	42.0	35.1	68.5	92.7	7.1	4.4	—	—
Stenographers and typists	8 001	103	7 698	122	14	47	12	344	47.4	35.3	66.0	93.1	1.9	3.8	—	—
Receptionists	4 558	164	4 394	3	26	67	12	143	37.9	34.8	70.1	92.1	10.4	5.5	—	—
Other information clerks	33	351	33	278	13	65	—	—	33.7	36.8	100.0	73.5	15.2	4.6	—	—
File clerks	231	153	139	62	14	18	—	4	40.5	38.6	77.8	90.2	34.6	—	—	—
Other records processing occupations, except financial	476	109	367	271	41	68	—	—	34.9	35.8	55.2	70.2	5.5	7.1	—	—
Bookkeepers, accounting, and auditing clerks	460	187	178	230	7	37	32	—	45.7	37.3	59.9	91.6	10.7	6.2	—	—
Payroll and timekeeping clerks	3 021	818	2 203	769	21	160	22	47	45.3	41.5	81.4	94.5	22.1	3.3	—	—
Other financial records processing occupations	1 379	628	586	662	26	83	21	8	39.5	38.6	79.1	92.0	7.8	1.2	—	—
Telephone operators	188	65	123	111	4	4	—	—	46.7	50.7	87.7	100.0	18.5	7.3	—	—
Mail and message distributing occupations	169	38	131	38	—	—	—	—	32.3	44.2	60.5	82.4	23.7	—	—	—
Production coordinators and assemblers	303	176	127	123	53	37	4	—	40.0	42.2	72.7	57.5	19.3	3.9	—	—
Traffic, shipping, and receiving clerks	743	565	305	173	18	66	21	23	35.2	33.6	82.3	65.7	18.8	1.0	—	—
Stock and inventory clerks	241	191	114	44	77	18	7	17	44.8	35.0	81.2	86.0	12.6	14.0	—	—
Other material recording, scheduling, and distributing clerks	976	1 803	778	126	153	26	18	10	41.8	35.5	77.1	70.4	5.6	2.8	—	—
Adjusters and investigators	293	87	176	67	23	19	10	32	43.5	34.5	77.0	78.5	29.6	1.5	—	—
Data-entry keyers	755	712	35	634	4	44	155	140	39.5	28.7	100.0	94.8	27.9	6.6	—	—
Other administrative support occupations	6 476	2 614	2 363	3 241	125	478	—	—	43.2	38.7	86.7	90.4	12.5	—	—	—
Service occupations	10 912	9 744	7 409	571	1 804	487	644	155	44.6	41.5	49.3	51.9	2.9	2.0	—	—
Private household occupations	2 407	2 310	1 982	53	254	36	—	—	51.0	42.1	51.3	80.4	7.3	—	—	—
Protective service occupations	2 197	2 118	1 800	47	244	32	53	6	51.6	43.7	48.7	75.9	4.1	—	—	—
Guards	210	192	182	6	10	4	—	—	34.5	25	79.7	100.0	43.2	—	—	—
Other protective service occupations	8 505	7 434	5 427	518	1 550	451	591	149	42.3	41.4	48.6	49.3	1.6	2.1	—	—
Food preparation and service occupation	220	109	51	65	48	39	32	—	51.1	38.0	26.6	52.3	4.6	6.3	—	—
Health service occupations	98	31	20	18	7	45	—	—	52.5	34.3	64.5	56.7	—	7.5	—	—
Cleaning and building service occupations, except household	7 786	7 012	5 126	388	1 447	319	545	124	42.3	42.1	48.9	45.9	1.1	1.3	—	—
Personal service occupations	401	282	230	47	48	48	14	21	32.4	50.7	48.9	64.7	12.1	0.8	—	—
Farming, forestry, and fishing occupations	3 336	3 209	2 448	112	600	9	255	8	36.7	28.2	49.3	64.6	2.8	8.7	—	—
Precision production, craft, and repair occupations	137 476	134 522	114 915	2 015	14 018	754	7 018	264	43.1	29.6	58.8	64.8	3.9	5.4	—	—
Mechanics and mechanics	21 703	21 487	19 490	161	1 538	55	710	13	41.3	27.3	58.6	70.8	1.6	2.8	—	—
Supervisors, mechanics and repairers	1 049	1 049	990	30	39	—	13	—	49.4	—	42.9	—	1.0	—	—	—
Automobile mechanics, including body	5 443	5 396	4 963	10	302	17	166	—	39.0	25	57.2	95.7	1.4	—	—	—
Industrial machinery repairers	1 345	1 335	1 258	10	55	—	72	—	45.5	25	52.7	100.0	1.0	—	—	—
Electronic repairers, communications and industrial equipment	361	356	324	5	19	—	—	—	41.3	30.3	89.6	100.0	5.3	—	—	—
Heating, air conditioning, and refrigeration mechanics	735	715	555	20	138	—	52	—	41.1	28.3	64.9	50.0	1.7	—	—	—
Other mechanics and repairers	12 770	12 636	11 400	96	985	38	407	13	40.9	29.8	58.2	61.9	1.7	4.5	—	—
Construction trades	109 425	106 884	89 920	1 689	12 010	667	6 108	245	43.4	30.0	58.1	63.7	4.3	5.0	—	—
Supervisors, construction occupations	45 634	44 914	41 179	561	2 556	129	1 822	50	48.3	41.4	62.1	76.9	7.4	12.8	—	—
Carpenters	15 129	14 511	10 770	380	2 299	187	1 173	60	35.2	25	59.2	59.2	2.7	3.9	—	—
Electricians	6 010	5 915	5 068	41	549	37	251	21	38.3	32.3	76.6	73.7	4.5	4.2	—	—
Painters, construction and maintenance	6 253	5 890	4 474	195	995	138	671	40	39.3	25	47.3	47.4	1.6	—	—	—
Plumbers, pipefitters, and steamfitters	4 930	4 879	3 713	15	892	26	372	15	38.8	25.5	57.5	82.4	2.2	9.8	—	—
Other construction trades	31 469	30 775	24 716	497	4 719	150	1 799	55	38.0	29.9	53.8	59.7	1.6	0.3	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

Construction, government workers													
United States													
Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Total		Black											
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Extrusive occupations													
227	227	197	211	165	9	32	39.7	26.1	73.6	72.1	4.9	13.2	
6 121	5 924	5 294	461	32	185	6	44.2	26.1	71.4	65.7	7.1	21.5	
1 978	1 913	1 737	129	6	79	—	48.6	25—	65.7	43.2	0.5	—	
1 511	1 474	1 282	141	15	71	—	39.9	25—	66.4	43.2	—	—	
Precision metalworking occupations													
—	—	—	—	—	—	—	—	—	—	—	—	—	
587	565	515	39	8	14	—	44.2	25—	61.4	36.4	0.4	—	
551	536	437	65	7	44	—	39.1	40.0	65.5	53.3	1.1	—	
373	373	330	37	—	13	—	35.4	—	75.1	—	—	—	
Other precision metal workers													
88	88	88	—	—	—	—	48.8	—	36.4	—	6.8	—	
Precision textile, apparel, and furnishings machine workers													
45	39	32	7	—	—	—	25—	30.0	61.5	—	—	—	
969	930	874	44	5	15	—	40.7	25.2	88.1	61.5	5.9	5.1	
1 465	1 424	1 229	140	6	10	—	42.9	31.8	76.8	100.0	6.3	24.4	
65	56	52	—	—	10	—	44.3	25—	46.4	—	—	—	
Other precision production occupations													
211 617	207 291	173 284	25 941	1 092	11 838	244	40.7	29.0	47.7	64.4	1.2	3.4	
10 234	9 658	7 944	1 374	148	557	43	38.7	28.0	60.4	69.3	3.3	7.1	
4 478	4 221	3 318	775	41	280	21	39.8	30.3	53.8	63.8	3.4	5.4	
176	152	97	24	—	11	—	41.7	37.2	55.9	100.0	—	—	
22	22	15	7	—	—	—	37.7	—	100.0	—	—	—	
Fabricating machine operators, n.e.c.													
103	103	52	42	—	9	—	40.6	—	35.9	—	—	—	
221	177	153	32	12	8	—	38.2	30.0	85.9	100.0	4.0	13.6	
11	11	11	—	—	—	—	37.1	—	36.4	—	—	—	
44	44	44	—	—	—	—	31.7	—	52.3	—	—	—	
Textile sewing machine operators													
—	—	—	—	—	—	—	—	—	—	—	—	—	
Laundry and dry cleaning machine operators													
7	7	5	2	—	—	—	48.0	—	71.4	—	—	—	
301	301	226	57	—	26	—	43.6	—	68.1	—	10.0	—	
675	588	443	123	7	82	13	38.4	29.0	59.9	34.5	4.3	—	
2 918	2 816	2 272	470	22	152	—	39.8	30.5	49.2	64.7	2.9	7.8	
Miscellaneous and not specified machine operators													
4 390	4 146	3 438	514	98	263	20	36.7	25—	59.6	68.9	2.3	10.2	
3 272	3 168	2 648	372	37	169	15	35.9	28.0	61.4	64.4	2.0	14.4	
13	5	5	—	—	—	—	25—	38.3	—	—	—	—	
495	394	278	80	58	52	5	36.6	25—	52.3	75.2	2.8	—	
610	579	487	62	3	42	—	42.2	27.2	55.4	74.2	3.5	—	
1 346	1 291	1 188	85	9	14	2	41.2	32.3	84.4	89.3	6.7	2.7	
30	30	30	—	—	—	—	57.9	—	50.0	—	23.3	—	
Other production inspectors, testers, samplers, and weighers													
1 336	1 261	1 158	85	9	14	2	40.9	32.3	85.2	89.3	6.3	2.7	
Transportation and material moving occupations													
110 853	109 695	96 542	9 541	177	5 206	61	43.0	30.8	46.3	67.1	1.0	4.1	
49 861	49 188	42 075	5 721	117	2 345	30	42.4	31.2	44.6	60.2	1.1	2.1	
47 967	47 332	40 441	5 546	110	2 084	30	42.2	31.0	44.1	57.8	1.0	0.6	
46 430	46 430	39 683	5 437	105	2 041	24	42.2	30.8	44.0	57.2	1.0	0.7	
Truck drivers													
8	8	8	—	—	—	—	48.3	—	75.0	—	75.0	—	
Other motor vehicle operators													
936	894	750	109	37	6	—	42.5	33.0	48.0	66.7	1.9	—	
1 854	1 854	1 634	175	25	50	—	45.7	32.9	59.4	100.0	3.2	26.3	
60 992	60 507	54 647	3 870	60	3 072	31	43.4	30.2	47.7	76.7	0.9	6.8	
Material moving equipment operators													
126	126	117	7	—	11	—	41.2	—	84.1	—	11.1	—	
1 233	1 225	1 041	153	5	72	—	42.7	40.0	44.5	37.5	1.0	—	
18 084	17 950	16 681	821	135	2 759	14	46.5	32.1	40.0	72.9	0.7	12.5	
41 539	41 206	36 628	2 839	53	2 230	17	42.0	29.1	51.0	79.3	0.9	4.5	
Other material moving equipment operators													
90 530	87 938	68 798	15 026	767	6 075	140	37.5	28.5	47.9	62.2	1.3	2.3	
Handlers, equipment cleaners, helpers, and laborers													
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	109	102	—	—	14	—	44.3	—	42.2	—	6.4	—	
Helpers, craft and production	2 717	2 529	1 741	127	493	8	29.4	26.2	54.1	48.1	1.9	—	
Construction laborers	86 010	83 648	65 708	1 516	14 172	132	37.8	28.7	47.9	61.8	1.3	2.5	
Freight, stock, and material handlers	986	968	682	12	267	—	34.6	28.6	41.9	66.7	0.4	—	
Garage and service station occupations, and equipment cleaners													
658	646	527	94	—	35	—	42.7	25—	43.0	100.0	—	—	
Hand packers and packagers	50	38	38	—	7	—	37.5	40.0	13.2	—	—	—	
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	

¹Persons of Spanish origin may be of any race.

United States

Employed persons 16 years and over

Managerial and professional specialty occupations	70 583	66 929	3 654	63 859	3 502	2 666	1 852	1 792	50	49	114	41.3	41.9	78.3	8.6	13.2	100.0	100.0
Executive, administrative, and managerial occupations	65 384	62 990	2 394	60 081	2 266	1 792	1 792	1 792	49	49	90	41.1	44.1	87.3	15.6	26.5	100.0	100.0
Financial managers	81	81	—	67	—	—	7	—	—	—	—	50.0	—	—	13.3	17.6	100.0	100.0
Managers, marketing, advertising, and public relations	473	456	17	448	17	—	8	—	—	—	—	32.7	32.7	100.0	37.0	—	100.0	100.0
Administrators, education and related fields	64	52	12	45	12	—	—	—	—	—	—	38.1	32.7	64.7	34.9	29.4	100.0	100.0
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	32.4	60.0	100.0	30.8	—	100.0	100.0
Other specified managers	1 387	1 289	98	1 230	87	—	23	—	5	—	—	—	—	—	—	—	100.0	100.0
Managers and administrators, n.e.c.	61 928	59 840	2 088	57 077	1 976	1 736	1 736	1 736	44	44	90	41.0	43.9	82.5	12.7	16.6	100.0	100.0
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.0	100.0
Management related occupations	1 445	1 266	179	1 087	174	18	18	18	—	—	—	50.5	41.7	97.7	27.5	34.6	100.0	100.0
Accountants and auditors	243	243	—	243	—	—	—	—	—	—	—	52.4	55.0	100.0	52.0	40.6	100.0	100.0
Personnel, training, and labor relations specialists	427	421	6	395	6	7	7	7	—	—	—	43.7	50.0	100.0	13.3	—	100.0	100.0
Buyers and purchasing agents	194	124	70	106	70	11	11	11	—	—	—	42.0	32.1	90.0	22.6	35.7	100.0	100.0
Inspectors and compliance officers	306	304	2	290	2	—	—	—	—	—	—	54.9	50.0	100.0	22.0	—	100.0	100.0
Other management related occupations	275	238	37	238	32	—	—	—	—	—	—	58.1	57.6	83.8	43.7	29.7	100.0	100.0
Professional specialty occupations	5 199	3 939	1 260	3 778	1 236	60	60	60	1	1	24	44.2	38.3	95.5	52.0	43.4	100.0	100.0
Engineers, architects, and surveyors	2 438	2 387	51	2 271	51	24	24	24	—	—	—	43.8	30.6	96.8	61.4	86.3	100.0	100.0
Architects	462	441	21	416	21	—	—	—	—	—	—	45.7	29.2	100.0	78.9	100.0	100.0	100.0
Engineers	1 895	1 867	28	1 776	28	24	24	24	—	—	—	46.3	31.1	96.9	58.9	82.1	100.0	100.0
Civil engineers	228	228	—	228	—	6	6	6	—	—	—	47.0	31.1	98.1	64.5	82.1	100.0	100.0
Electrical and electronic engineers	23	23	—	23	—	—	—	—	—	—	—	34.8	—	94.3	43.4	—	100.0	100.0
Industrial engineers	130	130	—	130	—	—	—	—	—	—	—	49.1	—	100.0	—	—	100.0	100.0
Mechanical engineers	239	239	—	239	—	18	18	18	—	—	—	51.3	—	95.4	52.3	—	100.0	100.0
Other engineers	81	79	2	79	2	—	—	—	—	—	—	33.5	30.0	94.1	21.5	—	100.0	100.0
Surveyors and mapping scientists	10	10	—	10	—	—	—	—	—	—	—	50.0	—	100.0	50.0	—	100.0	100.0
Computer systems analysts and scientists	14	14	—	14	—	—	—	—	—	—	—	59.3	—	100.0	—	—	100.0	100.0
Operations and systems researchers and analysts	5	5	—	5	—	—	—	—	—	—	—	65.4	—	100.0	—	—	100.0	100.0
Mathematical scientists	104	82	22	82	22	—	—	—	—	—	—	46.8	31.0	63.4	42.7	45.5	100.0	100.0
Natural scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.0	100.0
Chemists, except biochemists	104	82	22	82	22	—	—	—	—	—	—	46.8	31.0	63.4	42.7	45.5	100.0	100.0
Other natural scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.0	100.0
Health diagnosing occupations	15	2	13	2	13	—	—	—	—	—	—	50.0	30.0	100.0	—	46.2	100.0	100.0
Health assessment and treating occupations	8	2	6	2	6	—	—	—	—	—	—	50.0	30.0	100.0	—	100.0	100.0	100.0
Registered nurses	108	68	40	68	40	—	—	—	—	—	—	35.7	32.6	100.0	38.2	10.0	100.0	100.0
Other health assessment and treating occupations	45	39	6	39	6	—	—	—	—	—	—	55.2	65.4	100.0	33.3	—	100.0	100.0
Teachers, except postsecondary	10	10	—	10	—	—	—	—	—	—	—	50.0	—	100.0	—	—	100.0	100.0
Social scientists and urban planners	45	45	—	45	—	—	—	—	—	—	—	65.4	—	100.0	—	—	100.0	100.0
Social and recreation workers	45	45	—	45	—	—	—	—	—	—	—	65.4	—	100.0	—	—	100.0	100.0
Lawyers and judges	2 384	1 256	1 128	1 216	1 104	31	31	31	1	1	24	40.2	39.2	94.2	36.0	42.8	100.0	100.0
Writers, artists, entertainers, and athletes	21	21	—	21	—	—	—	—	—	—	—	43.1	—	66.7	28.6	—	100.0	100.0
Other professional specialty occupations	18 941	10 039	8 902	9 717	8 613	127	127	127	167	167	234	44.2	42.8	79.2	18.3	6.3	100.0	100.0
Technical, sales, and administrative support occupations	3 392	3 209	183	3 103	1 622	30	30	30	15	15	9	44.1	38.7	80.8	18.5	26.8	100.0	100.0
Technicians and related support occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.0	100.0
Health technicians and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.0	100.0
Licensed practical nurses	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.0	100.0
Other health technicians and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.0	100.0
Engineering and science technicians	3 149	2 993	156	2 894	141	30	30	30	15	15	9	45.0	42.2	80.0	18.0	21.2	100.0	100.0
Industrial and mechanical technicians	178	163	15	163	13	—	—	—	—	—	—	41.4	30.0	84.0	—	—	100.0	100.0
Industrial and mechanical engineering technicians	32	26	6	26	6	—	—	—	—	—	—	55.0	50.0	73.1	25.4	29.5	100.0	100.0
Drafting and surveying technicians	819	731	88	702	68	8	8	8	—	—	—	41.8	43.3	90.9	17.0	14.9	100.0	100.0
Other engineering and science technicians	2 120	2 073	47	2 003	47	22	22	22	—	—	—	46.3	42.0	78.3	25.9	59.3	100.0	100.0
Technicians, except health, engineering, and science	243	216	27	209	21	—	—	—	—	—	—	32.0	31.1	91.7	100.0	—	100.0	100.0
Airframe pilots and navigators	42	39	3	39	3	—	—	—	—	—	—	29.7	40.0	100.0	43.6	—	100.0	100.0
Air traffic controllers and broadcast equipment operators	38	32	6	32	6	—	—	—	—	—	—	30.0	30.7	100.0	54.5	62.5	100.0	100.0
Other technicians, except health, engineering, and science	163	155	8	155	2	—	—	—	—	—	—	32.9	30.0	88.4	17.4	75.0	100.0	100.0

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Construction, self-employed workers														
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		Black												
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.															
Technical, sales, and administrative support occupations—Con.															
Sales occupations	5 649	5 051	598	4 923	584	40	—	98	4	44.8	43.1	80.3	79.4	18.5	13.2
Supervisors and proprietors, sales occupations	885	823	62	801	56	—	—	18	—	42.2	43.6	72.9	80.6	14.1	21.0
Salaried	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Self-employed	885	823	62	801	56	—	—	18	—	42.2	43.6	72.9	80.6	14.1	21.0
Sales representatives, finance and business services	4 615	4 123	492	4 023	492	40	—	80	2	45.4	42.4	81.5	78.9	16.8	13.4
Sales representatives, commodities, except retail	56	50	—	—	—	—	—	—	—	51.4	48.2	94.6	—	46.4	—
Sales workers, retail and personal services	89	45	44	45	36	—	—	—	2	33.7	48.2	84.4	84.1	33.3	—
Cashiers	16	9	9	7	9	—	—	—	2	60.0	46.0	100.0	44.4	—	—
Other sales occupations, retail and personal services	73	38	35	38	27	—	—	—	—	32.3	48.8	81.6	94.3	39.5	—
Sales related occupations	4	4	—	4	—	—	—	—	—	50.0	—	100.0	—	—	—
Administrative support occupations, including clerical	9 900	1 779	8 121	1 691	7 867	57	152	72	221	42.6	42.8	73.2	78.6	17.6	5.3
Supervisors, administrative support occupations	404	190	214	167	200	12	14	18	6	44.8	43.0	71.6	81.8	11.1	—
Computer equipment operators	12	12	—	12	—	—	—	—	—	30.0	—	100.0	—	—	—
Secretaries, stenographers, and typists	2 791	71	2 720	71	2 633	—	47	2	83	45.3	41.4	74.6	77.9	2.8	4.6
Secretaries	2 656	69	2 587	69	2 500	—	47	2	77	44.7	41.3	73.9	77.3	100.0	4.6
Stenographers and typists	135	2	133	2	133	—	6	—	6	65+	43.3	100.0	88.7	100.0	4.5
Receptionists	61	—	61	—	55	—	—	—	—	—	40.7	—	67.2	—	—
Other information clerks	185	29	156	29	156	—	—	8	7	60.0	51.0	72.4	49.4	—	—
File clerks	12	5	7	5	7	—	—	—	—	65+	50.0	100.0	100.0	—	—
Other records processing occupations, except financial	79	61	18	61	18	—	—	—	—	52.9	34.0	80.3	66.7	13.1	33.3
Bookkeepers, accounting, and auditing clerks	4 211	345	3 866	331	3 733	7	71	14	100	45.1	42.5	77.7	82.2	18.8	6.4
Payroll and timekeeping clerks	49	7	42	7	42	—	—	—	—	65+	40.3	—	100.0	100.0	100.0
Other financial records processing occupations	19	9	10	9	10	—	—	—	—	65+	30.0	33.3	100.0	—	—
Telephone operators	10	10	10	—	10	—	—	—	—	38.0	50.0	57.6	53.8	—	38.5
Mail and message distributing occupations	46	33	13	33	13	—	—	5	—	46.7	42.9	93.6	72.7	46.2	32.7
Production coordinators and expeditors	133	78	55	78	55	—	—	—	—	31.3	—	100.0	100.0	100.0	100.0
Traffic, shipping, and receiving clerks	10	10	2	2	2	8	—	—	—	25	40.0	70.0	100.0	—	—
Stock and inventory clerks	15	10	5	10	5	—	—	—	—	40.5	56.6	5.4	40.7	5.4	—
Other material recording, scheduling, and distributing clerks	64	37	27	30	27	—	—	—	—	35.8	30.7	77.8	100.0	24.2	—
Adjusters and investigators	416	396	20	382	20	8	—	13	—	60.0	39.0	100.0	100.0	33.3	—
Date-entry keyers	33	21	12	21	12	22	14	12	25	41.9	47.0	67.7	70.7	16.3	3.7
Other administrative support occupations	1 350	465	885	443	871	—	—	—	—	—	—	—	—	—	—
Service occupations	2 030	1 554	476	1 325	429	180	38	51	31	44.0	37.6	63.1	62.0	6.2	2.9
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	50	45	5	45	5	—	—	—	—	42.7	65+	51.1	100.0	—	—
Guards	50	45	5	45	5	—	—	—	—	42.7	65+	51.1	100.0	—	—
Other protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	1 980	1 509	471	1 280	424	180	38	51	31	44.0	37.4	63.4	61.6	6.4	3.0
Food preparation and service occupation	74	56	18	25	18	31	—	—	—	57.7	58.1	41.1	33.3	—	—
Health service occupations	8	8	—	8	—	—	—	—	—	31.7	—	100.0	—	100.0	100.0
Cleaning and building service occupations, except household	1 816	1 394	422	1 215	375	130	38	51	31	44.1	36.1	63.6	65.6	75.0	3.3
Personal service occupations	82	51	31	32	31	19	—	—	—	42.2	40.7	78.4	22.6	7.8	—
Farming, forestry, and fishing occupations	702	648	34	530	34	72	—	59	—	38.0	38.3	52.2	47.1	11.8	—
Precision production, craft, and repair occupations	717 935	705 456	12 479	661 154	11 809	29 103	334	26 761	289	40.1	37.2	66.0	76.5	8.1	15.0
Mechanics and repairers	14 019	13 888	131	13 248	124	431	—	406	7	42.5	41.4	69.1	76.3	5.3	9.9
Supervisors, mechanics and repairers	148	148	—	—	—	—	—	—	—	38.1	45.7	85.8	53.8	6.8	—
Automobile mechanics, including body	563	550	13	474	13	69	—	18	7	40.3	45.7	57.1	50.0	2.9	—
Industrial machinery repairers	790	786	4	764	4	22	—	—	—	43.2	55.0	68.2	50.0	3.3	—
Electronic repairers, communications and industrial equipment	492	492	—	479	—	7	—	26	—	39.0	—	84.6	—	7.7	—
Heating, air conditioning, and refrigeration mechanics	6 953	6 903	50	6 677	43	141	—	253	—	43.1	41.3	71.6	54.0	4.7	14.0
Other mechanics and repairers	5 073	5 009	64	4 706	64	192	—	109	—	42.3	40.6	64.9	100.0	6.4	9.4
Construction trades	699 718	687 464	12 254	643 952	11 591	28 572	334	26 248	282	40.0	37.1	66.0	76.5	8.2	15.1
Supervisors, construction occupations	146 286	144 277	2 009	136 947	1 868	4 338	59	5 537	79	41.1	41.0	73.9	79.2	13.7	24.4
Carpenters	245 650	243 175	2 475	231 271	2 339	7 791	95	6 782	37	38.6	32.7	67.1	79.6	8.3	18.8
Electricians	35 651	35 342	309	33 651	280	1 074	14	1 014	6	42.9	42.1	76.1	63.4	6.8	2.9
Painters, construction and maintenance	96 202	91 940	4 242	83 775	4 007	5 082	117	5 089	98	40.6	40.6	58.9	76.5	7.7	13.7
Plumbers, pipefitters, and steamfitters	47 743	47 368	2 825	44 218	2 736	2 129	21	2 009	7	44.7	47.3	61.9	62.5	4.0	9.6
Other construction trades	128 166	125 342	8 924	114 062	2 736	8 158	28	5 817	55	38.1	36.9	58.6	75.4	3.8	9.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.	
Extrusive occupations	
Precision production occupations	255
Supervisors, production occupations	3 649
Precision metalworking occupations	777
Food and die makers	2 230
Food and die makers	29
Sheet metal workers	1 137
Other precision metal workers	1 944
Precision textile, apparel, and furnishings machine workers	147
Precision food production occupations	41
Precision inspectors, testers, and related workers	62
Plant and system operators	42
Other precision production occupations	288
	451
Operators, fabricators, and laborers	
Machine operators, assemblers, and inspectors	41 542
Machine operators and tenders, except precision	6 483
Metalworking and plastic working machine operators	2 489
Fabricating machine operators, n.e.c.	232
Metal and plastic processing and woodworking machine operators	34
Printing machine operators	205
Textile machine operators	20
Textile sewing machine operators	27
Laundry and dry cleaning machine operators	37
Package and filling machine operators	34
Furnace, kiln, and oven operators, except food	8
Other specified machine operators	517
Miscellaneous and not specified machine operators	1 375
Fabricators, assemblers, and hand working occupations	
Welders and cutters	3 857
Solders and brazers	3 093
Assemblers	5
Hand working occupations	381
Production inspectors, testers, samplers, and weighers	378
Graders and sorters, except agricultural	137
Other production inspectors, testers, samplers, and weighers	36
	101
Transportation and material moving occupations	
Transportation occupations	32 834
Motor vehicle operators	5 938
Truck drivers	5 768
Driver-sales workers	5 631
Other motor vehicle operators	34
Rail and water transportation occupations	103
Material moving occupations	170
Supervisors, material moving equipment operators	26 779
Crane, hoist, and winch operators	896
Extruding, grinding, and laser machine operators	402
Other material moving equipment operators	567
	15 065
Handlers, equipment cleaners, helpers, and laborers	10 554
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	2 225
Helpers, craft and production	50
Construction laborers	1 632
Freight, stock, and material handlers	1 865
Garage and service station occupations, and equipment cleaners	165
Hand packers and packagers	128
Laborers, except construction	17

Persons of Spanish origin may be of any race.

Persons by Occupation, Industry, and Sex: 1980—Con.

ample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Construction, self-employed workers

	Race		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
255	—	241	—	14	—	—	40.6	—	60.4	—	11.4	—	100.0	—
3 649	94	3 713	—	86	—	107	42.4	—	66.3	—	5.7	—	100.0	—
777	15	736	—	36	—	28	43.9	—	66.9	—	8.4	—	100.0	—
2 230	20	2 179	—	24	—	64	42.0	—	65.6	—	2.3	—	100.0	—
29	—	29	—	—	—	—	57.5	—	55.2	—	—	—	100.0	—
1 137	8	1 137	—	—	—	9	45.8	—	60.0	—	—	—	100.0	—
1 944	5	1 944	—	24	—	41	41.8	—	64.8	—	2.5	—	100.0	—
147	—	147	—	—	—	14	37.3	—	78.5	—	1.4	—	100.0	—
41	17	124	—	—	—	—	35.4	—	48.3	—	4.9	—	100.0	—
62	—	62	—	—	—	—	35.4	—	48.3	—	—	—	100.0	—
42	—	42	—	—	—	—	30.5	—	45.2	—	—	—	100.0	—
288	14	244	—	12	—	15	30.5	—	45.2	—	12.0	—	100.0	—
423	28	409	—	14	—	—	41.2	—	72.6	—	16.1	—	100.0	—
40 900	642	38 879	8	324	—	1 559	41.0	—	57.0	—	3.4	—	100.0	—
6 483	171	5 949	166	222	—	358	39.1	—	69.6	—	7.2	—	100.0	—
2 489	77	2 213	72	126	—	158	41.9	—	81.9	—	3.8	—	100.0	—
232	—	217	—	8	—	20	43.6	—	47.8	—	3.2	—	100.0	—
34	—	25	—	—	—	6	36.1	—	58.8	—	—	—	100.0	—
192	13	169	13	23	—	4	40.4	—	53.1	—	—	—	100.0	—
20	20	15	—	5	—	—	36.7	—	60.0	—	—	—	100.0	—
25	2	25	2	—	—	—	55.8	—	88.0	—	60.0	—	100.0	—
37	12	25	12	—	—	—	39.7	—	20.0	—	100.0	—	100.0	—
34	—	34	—	—	—	—	30.7	—	76.5	—	—	—	100.0	—
8	—	8	—	—	—	—	40.0	—	100.0	—	—	—	100.0	—
517	31	435	26	43	—	32	40.5	—	54.3	—	9.1	—	100.0	—
1 375	19	1 270	19	47	—	100	40.0	—	59.8	—	9.2	—	100.0	—
3 769	88	3 595	88	96	—	198	38.3	—	60.7	—	4.0	—	100.0	—
3 067	26	2 918	26	79	—	165	37.6	—	33.7	—	3.8	—	100.0	—
5	—	5	—	—	—	—	40.0	—	60.9	—	—	—	100.0	—
381	31	331	31	17	—	23	37.4	—	61.7	—	7.1	—	100.0	—
378	26	346	26	—	—	10	47.0	—	58.0	—	2.0	—	100.0	—
137	6	131	6	—	—	—	40.0	—	73.1	—	15.4	—	100.0	—
36	—	36	—	—	—	—	43.6	—	61.8	—	16.8	—	100.0	—
95	6	95	6	—	—	—	—	—	22.2	—	16.7	—	100.0	—
32 610	224	31 239	204	913	—	—	34.9	—	76.8	—	16.8	—	100.0	—
5 938	107	5 258	105	434	—	989	41.8	—	56.8	—	2.8	—	100.0	—
5 668	100	5 109	98	425	—	387	41.2	—	52.8	—	3.1	—	100.0	—
5 631	87	4 990	85	425	—	377	41.3	—	52.5	—	2.8	—	100.0	—
34	—	34	—	—	—	5	41.9	—	52.5	—	2.9	—	100.0	—
103	13	85	13	—	—	5	41.9	—	47.1	—	—	—	100.0	—
170	7	149	7	9	—	—	37.8	—	55.6	—	—	—	100.0	—
26 779	117	25 981	99	479	—	602	41.9	—	63.8	—	12.3	—	100.0	—
896	3	599	3	20	—	—	38.1	—	77.8	—	2.7	—	100.0	—
402	6	451	6	—	—	11	46.0	—	57.7	—	4.0	—	100.0	—
567	6	550	6	—	—	—	46.1	—	52.9	—	8.0	—	100.0	—
15 065	69	14 693	49	247	—	247	42.3	—	55.7	—	2.2	—	100.0	—
10 554	39	10 187	21	212	—	303	41.0	—	61.4	—	3.0	—	100.0	—
1 978	247	1 691	236	199	—	214	31.1	—	52.4	—	6.2	—	100.0	—
50	—	50	—	—	—	—	44.4	—	82.0	—	20.0	—	100.0	—
1 632	233	1 381	222	180	—	198	29.6	—	49.7	—	5.3	—	100.0	—
165	10	119	10	19	—	16	32.1	—	61.3	—	5.2	—	100.0	—
128	4	124	4	—	—	—	40.9	—	63.7	—	13.7	—	100.0	—
17	—	17	—	—	—	—	32.5	—	64.7	—	11.8	—	100.0	—

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States																	
	Manufacturing, total																	
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	21 914 754	14 918 949	6 995 805	12 923 106	5 781 947	1 353 425	810 178	926 575	552 982	37.1	35.9	71.6	66.3	14.7	5.9	1.7	0.9	
Managerial and professional specialty occupations	3 181 630	2 631 998	549 632	2 493 048	504 139	59 970	26 026	58 179	18 090	41.3	34.4	94.8	93.1	53.0	33.4	2.8	3.8	
Executive, administrative, and managerial occupations	1 893 173	1 562 017	331 156	1 497 178	304 321	33 392	15 815	36 226	11 879	42.6	35.9	92.8	92.2	48.0	24.1	3.8	3.4	
Officials and administrators, public administration	114	95	19	89	19	—	—	18	—	50.2	31.4	74.7	100.0	22.1	24.1	—	—	
Financial managers	74 405	61 376	13 029	59 240	12 221	920	447	1 148	319	39.8	36.4	98.3	95.0	72.1	24.9	0.3	0.4	
Managers, marketing, advertising, and public relations	206 518	182 510	24 008	178 457	23 009	2 234	556	2 609	576	41.8	33.7	94.9	95.0	53.7	31.1	0.9	1.8	
Administrators, education and related fields	1 484	1 172	312	1 135	284	25	23	17	—	44.5	34.6	89.5	93.3	50.6	27.6	3.8	3.8	
Managers, medicine and health	85 182	67 298	17 884	63 812	16 553	2 298	878	1 821	884	42.3	37.5	94.9	94.2	56.9	26.5	—	—	
Other specified managers	1 095 832	953 413	142 419	916 870	132 988	16 999	5 031	23 402	5 825	43.8	38.9	90.9	89.6	43.5	20.9	1.1	0.9	
Managers and administrators, n.e.c.	1 028 650	898 130	130 520	864 093	121 959	16 205	4 882	21 258	5 138	43.8	38.5	91.5	90.0	44.8	20.9	5.7	7.0	
Self-employed	67 182	55 283	11 899	52 777	11 029	794	149	2 144	687	43.2	43.1	80.7	84.9	22.9	21.8	97.8	84.4	
Management related occupations	429 638	296 153	133 485	277 575	119 247	10 916	8 880	7 211	4 265	38.9	33.5	94.7	93.9	51.8	25.9	0.9	0.4	
Accountants and auditors	197 529	130 464	67 065	121 905	59 153	4 031	4 408	2 991	2 034	35.7	32.4	98.7	96.1	68.0	32.8	0.4	0.3	
Personnel, training, and labor relations specialists	80 805	54 566	26 239	49 223	23 074	3 910	2 226	2 056	1 264	40.3	35.3	87.1	89.1	37.2	22.0	0.8	0.3	
Buyers and purchasing agents	108 585	79 184	29 401	76 188	27 530	1 887	1 349	1 596	677	41.0	34.2	93.7	94.2	34.5	13.3	1.0	0.3	
Inspectors and compliance officers	6 567	5 020	1 547	4 470	1 187	446	292	139	101	44.0	39.0	81.5	60.7	16.3	5.4	0.4	—	
Other management related occupations	36 152	26 919	9 233	25 789	8 303	642	605	429	189	42.1	34.4	96.4	95.6	59.8	30.3	3.5	1.8	
Professional specialty occupations	1 288 457	1 069 981	218 476	995 870	199 818	26 578	10 211	21 953	6 211	39.2	32.8	97.8	94.5	60.3	47.6	1.4	4.4	
Engineers, architects, and surveyors	722 904	690 744	32 160	643 539	28 516	14 282	1 816	13 011	917	40.0	31.0	98.5	94.7	61.6	43.8	0.5	0.4	
Architects	1 716	1 590	126	1 468	87	95	8	47	24	38.8	29.0	95.8	93.7	45.6	64.3	1.1	4.0	
Engineers	720 749	688 737	32 012	641 771	28 407	14 154	1 808	12 935	893	40.0	31.0	98.5	94.7	61.7	43.7	0.5	0.4	
Civil engineers	12 596	12 140	456	11 302	380	272	52	277	14	39.4	28.6	95.2	90.8	68.6	54.4	0.3	0.4	
Electrical and electronic engineers	163 638	158 768	4 870	145 398	4 112	3 390	244	3 326	204	38.2	30.6	94.3	90.3	68.1	52.5	0.5	0.7	
Industrial engineers	152 975	138 267	14 708	131 451	13 471	3 194	706	2 593	430	40.2	32.4	97.7	92.9	45.7	27.0	0.2	0.1	
Mechanical engineers	147 813	145 018	2 795	136 128	2 496	2 877	187	2 074	38	40.3	29.0	98.2	97.7	57.4	57.3	0.2	0.2	
Other engineers	243 727	234 544	9 183	217 492	7 948	4 421	619	4 465	207	41.1	25.5	86.1	100.0	19.2	63.6	0.7	0.6	
Surveyors and mapping scientists	439	417	22	360	33	—	—	29	—	33.5	25.5	99.0	97.6	19.2	63.6	2.6	—	
Computer systems analysts and scientists	65 606	54 147	11 459	50 023	9 936	1 695	854	1 046	277	35.5	31.5	99.0	97.6	59.8	51.0	0.6	0.5	
Operations and systems researchers and analysts	26 354	21 106	5 248	19 929	3 778	1 187	378	1 386	98	39.8	33.8	97.3	94.9	46.5	35.9	0.6	0.1	
Mathematical scientists	7 259	4 479	2 780	4 006	2 510	187	128	306	58	40.8	34.5	98.5	96.0	66.6	31.2	0.1	0.2	
Natural scientists	80 450	65 757	14 693	58 924	11 706	2 387	1 136	1 150	451	38.1	31.8	98.4	96.0	78.3	71.9	0.8	1.5	
Chemists, except biochemists	59 234	48 941	10 293	43 224	7 914	2 073	844	937	344	38.5	32.1	98.6	96.0	78.1	72.6	0.5	1.7	
Other natural scientists	21 216	16 816	4 400	15 700	3 792	314	292	213	107	37.0	31.3	97.8	96.2	79.0	70.2	1.5	1.1	
Health diagnosing occupations	3 054	2 653	401	2 450	338	61	39	100	40	49.5	36.9	99.6	97.3	90.7	72.3	7.5	12.7	
Health assessment and treating occupations	17 823	2 340	15 483	14 744	591	150	591	201	201	36.0	47.0	95.8	97.9	57.3	24.0	1.0	0.9	
Registered nurses	15 582	812	14 770	14 120	65	65	515	103	40	34.7	47.4	96.4	98.3	44.0	22.4	1.8	0.8	
Other health assessment and treating occupations	2 241	1 528	713	1 272	624	85	76	63	19	36.7	35.2	95.5	90.2	64.4	58.3	0.6	2.8	
Teachers, except postsecondary	15 802	10 108	5 494	9 184	4 880	669	582	266	310	39.0	36.8	88.3	70.2	26.6	20.0	1.3	5.6	
Social scientists and urban planners	29 137	21 845	7 272	20 820	6 884	510	378	278	179	38.4	31.0	99.1	97.4	78.5	54.7	1.0	0.9	
Social and recreation workers	11 057	7 583	1 464	6 526	1 975	31	64	22	19	40.6	33.8	82.5	79.1	37.1	38.1	3.7	0.4	
Lawyers and judges	11 756	10 362	1 394	9 999	1 245	281	122	161	50	40.9	31.8	99.6	99.9	98.4	87.7	1.2	2.9	
Writers, artists, entertainers, and athletes	299 885	182 804	117 081	171 742	110 176	5 495	3 846	5 244	3 539	37.2	32.3	94.9	94.6	47.3	49.6	5.4	7.4	
Other professional specialty occupations	7 370	3 023	4 347	2 735	3 959	199	277	80	116	40.5	37.8	90.6	92.4	43.7	47.6	3.5	1.5	
Technical, sales, and administrative support occupations	4 128 349	1 900 655	2 137 694	1 799 496	1 934 161	122 266	136 081	84 240	86 875	36.2	34.0	85.0	88.1	21.3	7.4	1.6	0.7	
Technicians and related support occupations	691 586	558 540	133 046	506 521	114 275	26 205	10 785	18 859	5 997	32.2	32.2	93.4	87.4	20.2	21.6	0.5	0.4	
Health technologists and technicians	9 583	5 779	3 804	5 181	3 140	362	405	209	251	34.6	33.7	93.4	89.4	37.0	25.0	2.5	0.7	
Licensed practical nurses	1 523	262	1 261	235	1 012	6	220	13	25	37.4	38.6	90.8	88.4	17.9	5.2	5.0	0.6	
Other health technologists and technicians	8 060	5 517	2 543	4 946	2 148	316	185	196	228	34.5	32.1	88.7	89.9	37.9	34.8	2.4	0.8	
Engineering and science technicians	509 079	418 343	90 736	379 687	77 984	20 178	7 695	14 994	4 512	34.0	32.9	93.0	84.5	14.0	13.6	0.4	0.2	
Electrical and electronic technicians	144 695	126 999	17 696	112 865	14 569	6 235	1 454	5 204	1 460	32.3	33.4	94.4	80.7	9.6	7.2	0.2	0.1	
Industrial and mechanical engineering technicians	18 107	16 148	1 959	15 084	1 748	636	155	415	97	38.7	35.9	89.1	76.3	25.6	11.6	0.5	—	
Drafting and surveying technicians	137 449	121 337	16 112	112 539	14 795	4 009	572	4 346	564	33.2	30.0	94.8	93.0	10.6	15.3	0.7	0.4	
Other engineering and science technicians	208 828	153 859	54 969	139 199	46 872	9 298	5 514	5 029	2 391	36.2	33.4	90.8	83.5	19.1	15.2	0.3	0.2	
Technicians, except health, engineering, and science	172 924	134 418	38 506	121 653	33 131	5 705	2 685	3 656	1 234	33.7	30.8	95.0	93.9	38.9	40.1	0.6	0.7	
Airplane pilots and navigators	4 507	4 437	70	4 402	70	14	—	57	14	39.8	33.2	93.4	81.4	33.6	21.4	0.6	—	
Air traffic controllers and broadcast equipment operators	1 522	1 152	370	1 066	297	61	—	16	26	37.6	32.6	84.8	82.2	22.0	10.5	1.9	—	
Computer programmers	93 010	68 389	24 621	62 651	21 267	2 434	1 514	1 578	550	32.5	29.9	98.4	97.5	51.0	48.0	0.5	0.5	
Other technicians, except health, engineering, and science	73 885	60 440	13 445	53 534	11 497	3 193	1 110	2 005	644	35.0	32.9	91.3	87.8	25.9	26.5	0.6	1.2	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States											
Employed persons 16 years and over—Con.											
Manufacturing, total											
Race											
Total		White		Black		Spanish origin ^a		Median age		Percent high school graduates	
Both sexes	Male	Female	Male	Female	Male	Male	Female	Male	Female	Male	Female
688 747	538 922	149 825	516 105	138 147	14 696	13 246	5 764	38.5	32.8	86.8	80.5
53 484	44 120	9 364	41 659	8 466	1 537	1 610	477	40.7	36.9	88.2	84.8
49 013	40 332	8 681	38 243	7 751	1 319	1 332	455	40.7	36.9	89.4	84.8
4 471	3 788	3 163	3 416	28 562	2 185	78	22	44.9	42.4	90.5	90.5
92 964	62 800	30 164	60 880	28 562	1 085	1 558	863	39.9	32.7	94.3	91.9
433 496	364 802	68 694	351 587	36 303	8 443	7 807	2 735	39.8	32.8	93.0	84.6
106 816	66 321	40 495	61 122	36 703	3 321	2 604	1 664	25	31.6	44.5	63.8
13 053	2 694	10 359	2 212	8 484	321	359	817	34.9	30.7	67.3	68.8
93 763	63 627	30 136	58 910	28 219	3 104	2 284	847	25	34.7	43.5	62.0
1 987	1 108	857	857	37	6	28	25	35.4	38.3	79.0	82.5
2 748 016	893 193	1 854 823	774 870	1 083 739	81 365	52 155	75 114	36.6	34.2	78.7	88.8
176 726	119 426	57 300	109 426	2 937	5 545	5 116	2 433	40.5	39.1	87.1	89.8
98 886	44 156	54 730	38 150	47 932	9 846	5 116	2 433	37.1	35.5	82.4	82.4
683 771	9 086	674 685	7 950	628 233	772	22 512	22 512	36.1	33.8	86.5	90.5
589 530	6 437	583 093	5 817	548 123	434	16 249	16 249	36.1	33.8	86.5	90.5
94 241	2 449	91 792	2 133	80 110	338	159	263	33.8	32.0	86.0	89.8
42 116	874	41 242	715	37 497	112	83	2 407	33.0	31.0	78.6	87.5
15 366	4 150	11 216	3 751	9 928	295	162	419	37.6	32.6	84.0	86.3
65 844	23 510	42 334	21 377	36 030	1 433	961	2 606	36.5	33.5	82.7	72.4
101 315	29 379	71 936	5 012	6 213	3 171	3 914	3 914	36.6	33.7	78.5	87.3
268 139	32 348	235 791	29 097	220 188	1 796	1 581	7 361	39.2	38.0	92.8	91.5
53 460	9 599	43 861	8 712	40 823	417	374	1 030	36.5	35.0	89.6	89.3
44 832	9 196	35 636	8 204	32 329	2 089	1 581	7 361	36.5	35.0	89.6	89.3
19 028	1 470	17 558	1 131	15 577	264	1 030	1 030	36.5	35.0	90.1	88.7
49 356	30 240	19 116	24 325	16 276	4 568	2 048	849	30.3	22.2	70.1	73.0
187 368	116 053	71 315	105 190	63 884	5 189	3 280	383	33.2	34.5	85.6	83.8
239 507	188 295	51 212	152 950	44 770	24 955	18 149	3 492	33.2	34.5	85.6	83.8
193 594	131 900	61 694	113 997	54 043	12 982	7 024	2 923	34.7	32.0	79.3	79.1
40 358	25 321	15 037	21 661	12 453	2 696	1 418	941	38.7	35.4	74.3	65.7
37 984	17 255	20 729	15 964	18 285	894	7 024	551	37.4	32.6	91.1	92.1
86 381	5 779	80 602	4 600	66 759	829	478	4 110	34.0	31.6	84.2	91.0
343 985	95 156	248 829	84 658	222 729	7 357	4 327	11 262	38.5	35.3	84.2	84.7
493 917	407 178	86 739	326 620	61 653	62 999	20 918	5 700	43.3	41.9	50.5	50.0
97 126	90 245	6 881	78 644	5 416	9 767	1 275	2 454	50.9	36.0	60.0	71.3
88 711	82 172	6 539	71 495	5 110	9 036	1 239	2 272	51.5	35.9	58.4	70.9
8 415	8 073	342	7 149	306	36	36	21	46.1	41.5	76.8	79.5
396 791	316 933	79 858	247 976	56 237	53 232	19 643	5 434	40.7	42.4	47.7	48.1
32 852	13 797	19 055	9 365	14 496	3 206	3 636	1 911	33.1	43.0	50.4	52.0
3 844	1 091	2 753	888	2 177	128	524	63	38.4	44.4	75.0	78.6
350 771	297 727	53 044	234 328	35 721	49 134	14 506	4 054	41.2	42.5	47.3	44.0
9 304	4 318	4 986	3 365	3 841	764	977	245	37.0	36.9	60.0	60.5
101 497	97 556	3 941	78 991	2 713	16 044	821	2 025	35.0	33.7	46.8	55.3
4 127 970	3 607 326	520 644	3 232 047	415 903	240 987	62 021	208 586	39.2	37.7	71.2	60.2
929 694	879 720	49 974	788 998	41 062	62 822	6 811	42 666	38.5	35.2	60.0	40.2
21 124	20 600	524	19 345	471	62 754	39	3 756	37	39.8	77.8	79.5
66 437	63 948	2 489	54 360	1 982	6 405	435	4 321	37.0	35.8	61.8	59.1
322 548	311 406	11 142	282 200	9 352	21 167	1 456	526	38.5	34.7	62.5	58.2
23 100	19 980	3 120	17 814	2 387	1 268	379	830	35.6	36.0	86.1	69.5
15 836	15 505	331	14 017	274	947	52	885	37.2	32.8	71.7	68.6
480 649	448 281	32 368	401 262	26 396	32 081	4 450	22 933	38.5	35.2	69.6	63.8
461 957	441 909	20 048	392 179	15 731	32 545	3 137	27 408	37.6	33.2	70.5	62.6
21 492	20 744	748	19 745	674	45	45	23	43.7	53.1	77.9	79.5
85 210	81 911	3 299	71 909	2 653	8 657	247	8 657	33.1	31.6	79.8	79.5
165 928	160 054	5 874	147 906	4 607	7 951	852	4 756	38.6	34.4	80.8	69.2
35 671	31 459	4 212	25 821	3 187	5 083	730	3 513	33.6	32.1	52.9	52.2
87 249	85 543	1 706	75 966	1 279	6 924	332	3 494	36.7	33.4	72.1	64.7
66 407	62 198	4 209	53 024	3 331	6 559	765	4 681	34.7	33.3	62.1	62.2
4 127 970	3 607 326	520 644	3 232 047	415 903	240 987	62 021	208 586	39.2	37.7	71.2	60.2
929 694	879 720	49 974	788 998	41 062	62 822	6 811	42 666	38.5	35.2	60.0	40.2
21 124	20 600	524	19 345	471	62 754	39	3 756	37	39.8	77.8	79.5
66 437	63 948	2 489	54 360	1 982	6 405	435	4 321	37.0	35.8	61.8	59.1
322 548	311 406	11 142	282 200	9 352	21 167	1 456	526	38.5	34.7	62.5	58.2
23 100	19 980	3 120	17 814	2 387	1 268	379	830	35.6	36.0	86.1	69.5
15 836	15 505	331	14 017	274	947	52	885	37.2	32.8	71.7	68.6
480 649	448 281	32 368	401 262	26 396	32 081	4 450	22 933	38.5	35.2	69.6	63.8
461 957	441 909	20 048	392 179	15 731	32 545	3 137	27 408	37.6	33.2	70.5	62.6
21 492	20 744	748	19 745	674	45	45	23	43.7	53.1	77.9	79.5
85 210	81 911	3 299	71 909	2 653	8 657	247	8 657	33.1	31.6	79.8	79.5
165 928	160 054	5 874	147 906	4 607	7 951	852	4 756	38.6	34.4	80.8	69.2
35 671	31 459	4 212	25 821	3 187	5 083	730	3 513	33.6	32.1	52.9	52.2
87 249	85 543	1 706	75 966	1 279	6 924	332	3 494	36.7	33.4	72.1	64.7
66 407	62 198	4 209	53 024	3 331	6 559	765	4 681	34.7	33.3	62.1	62.2

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Manufacturing, total																				
	Total				Race				Spanish origin ¹				Median age				Percent high school graduates				Percent completed 4 or more years of college				Percent self-employed						
	Both sexes		Male		Female		White		Black		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		
Employed persons 16 years and over—Con.																															
Precision production, craft, and repair occupations—Con.																															
Extraction occupations																															
Precision production occupations																															
Supervisors, production occupations																															
Precision metalworking occupations																															
Tool and die makers																															
Machinists																															
Sheet metal workers																															
Other precision metal workers																															
Precision textile, apparel, and furnishings machine workers																															
Precision food production occupations																															
Precision inspectors, testers, and related workers																															
Plant and system operators																															
Other precision production occupations																															
Operators, fabricators, and laborers																															
Machine operators, assemblers, and inspectors																															
Machine operators and tenders, except precision																															
Metalworking and plastic working machine operators																															
Manufacturing machine operators, n.e.c.																															
Metal and plastic processing and woodworking machine operators																															
Printing machine operators																															
Textile machine operators																															
Textile sewing machine operators																															
Laundry and dry cleaning machine operators																															
Packaging and filling machine operators																															
Furnace, kiln, and oven operators, except food																															
Other specified machine operators																															
Miscellaneous and not specified machine operators																															
Fabricators, assemblers, and hand working occupations																															
Welders and others																															
Solders and brazers																															
Assemblers																															
Hand working occupations																															
Precision inspectors, testers, samplers, and weighers																															
Orders and sorters, except agricultural																															
Other production inspectors, testers, samplers, and weighers																															
Transportation and material moving occupations																															
Transportation occupations																															
Motor vehicle operators																															
Truck drivers																															
Driver-sales workers																															
Other motor vehicle operators																															
Rail and water transportation occupations																															
Material moving equipment operators																															
Supervisors, material moving equipment operators																															
Cranes, hoist and winch operators																															
Excavating, grading, and dozer machine operators																															
Other material moving equipment operators																															
Handlers, equipment cleaners, helpers, and laborers																															
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																															
Helpers, craft and production																															
Construction laborers																															
Freight, stock, and material handlers																															
Garage and service station occupations, and equipment cleaners																															
Hand packers and packagers																															
Laborers, except construction																															

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: -1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Food and kindred products									
	Race																			
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1 533 548	1 045 776	487 772	878 508	365 212	122 707	67 961	97 864	45 415	36.4	36.8	64.2	61.7	10.7	4.7	1.4	0.8				
Managerial and professional specialty occupations	169 723	141 992	134 631	25 058	3 556	1 404	4 017	982	41.7	34.5	89.9	91.7	46.1	32.0	3.3	3.1				
Executive, administrative, and managerial occupations	142 269	120 743	114 854	19 634	2 999	1 975	3 502	784	42.2	35.3	88.8	90.7	43.2	26.3	3.8	3.8				
Officials and administrators, public administration	18	18	12	—	—	—	18	—	60.0	—	—	—	—	—	—	—				
Financial managers	5 900	5 153	4 929	1 655	89	49	317	31	36.2	36.2	98.2	94.5	66.6	23.0	0.3	—				
Managers, marketing, advertising, and public relations	17 477	16 119	15 700	1 233	282	53	317	31	37.4	37.4	98.2	94.5	66.6	23.0	0.3	—				
Administrators, education and related fields	76	48	46	28	2	—	—	—	39.7	45.0	79.2	100.0	62.5	28.3	—	—				
Managers, medicine and health	5 937	4 124	3 924	1 334	130	55	118	93	41.6	36.8	92.6	88.6	53.7	25.3	1.4	1.2				
Other specified managers	83 588	73 904	70 373	9 080	1 767	260	2 245	396	43.6	40.9	86.1	87.2	38.6	21.7	5.7	8.0				
Managers and administrators, n.e.c.	78 333	69 551	66 235	8 238	1 710	249	2 033	342	43.3	40.3	86.8	88.1	39.8	21.9	—	—				
Self-employed	5 255	4 355	4 138	842	57	11	212	54	47.7	45.0	74.5	78.4	19.5	20.1	97.4	85.6				
Management related occupations	29 873	21 375	19 870	7 514	709	558	691	264	38.2	32.2	91.6	93.7	50.7	28.4	1.1	0.3				
Accountants and auditors	14 681	9 455	8 724	4 175	259	328	315	155	34.2	31.3	98.4	96.6	49.1	32.7	0.3	0.1				
Personnel, training, and labor relations specialists	4 318	3 577	3 274	1 185	123	123	263	62	38.9	34.8	78.8	87.5	32.7	22.1	1.3	0.5				
Buyers and purchasing agents	8 218	7 054	6 753	1 125	148	15	182	8	43.5	33.1	88.5	95.8	32.8	17.4	1.9	—				
Inspectors and inspectors of work	4 608	3 448	3 260	1 191	148	52	174	30	47.9	39.2	76.1	50.0	21.3	7.7	—	—				
Other management related occupations	1 834	1 341	1 293	443	44	39	17	9	41.1	31.2	95.2	98.6	66.3	37.5	2.1	3.0				
Professional specialty occupations	27 454	21 249	19 777	5 424	557	429	515	198	38.3	32.7	95.7	95.1	62.7	51.8	0.7	0.8				
Engineers, architects, and surveyors	11 417	10 665	10 039	682	212	44	264	11	40.0	35.3	95.2	94.5	56.2	40.2	0.4	—				
Architects	84	79	74	5	5	—	—	—	38.2	30.0	79.7	100.0	51.9	100.0	—	—				
Engineers	11 315	10 588	9 953	677	207	44	264	11	40.0	35.3	95.2	94.5	56.2	40.2	0.4	—				
Civil engineers	699	654	603	36	35	—	—	—	34.9	35.8	82.1	86.7	36.2	33.3	—	—				
Electrical and electronic engineers	645	620	570	20	13	—	—	—	42.4	25.0	94.7	100.0	57.6	92.0	—	—				
Industrial engineers	3 110	2 630	2 487	450	39	20	64	6	37.5	32.2	97.8	94.6	60.3	29.2	—	—				
Mechanical engineers	2 721	2 702	2 548	19	73	—	57	19	43.3	30.0	91.9	100.0	36.7	26.3	0.3	—				
Other engineers	4 140	3 962	3 745	152	47	24	114	5	39.9	28.2	98.4	100.0	69.9	64.0	0.7	—				
Surveyors and mapping scientists	18	18	12	—	—	—	—	—	50.0	—	66.7	—	66.7	—	—	—				
Computer systems analysts and scientists	1 357	1 079	1 035	256	26	19	24	15	34.0	31.6	99.0	97.8	58.5	57.9	1.7	2.5				
Operations and systems researchers and analysts	646	433	397	168	6	—	5	—	35.3	31.8	100.0	95.8	51.7	35.2	—	—				
Mathematical scientists	238	104	94	112	—	—	3	6	37.5	31.8	100.0	95.8	51.7	35.2	—	—				
Natural scientists	6 075	4 368	3 860	1 369	144	99	111	58	35.4	30.9	97.7	98.7	78.2	75.6	0.9	0.4				
Chemists, except biochemists	3 585	2 753	2 385	586	100	72	67	48	32.8	29.0	98.8	99.3	79.1	77.0	—	—				
Other natural scientists	2 490	1 615	1 475	783	44	27	44	10	34.6	29.0	95.9	98.2	76.7	74.2	1.0	0.8				
Health diagnosing occupations	239	205	188	29	17	—	—	—	46.3	45.0	98.0	82.4	87.3	32.4	—	—				
Health diagnosing occupations	1 396	335	319	946	11	91	15	20	46.3	45.0	98.0	82.4	87.3	32.4	—	—				
Health assessment and treating occupations	929	31	898	25	6	65	4	14	25.0	44.4	89.9	96.9	72.5	31.1	—	0.7				
Registered nurses	467	304	294	135	5	26	11	6	40.6	33.7	91.1	92.0	76.0	69.3	—	0.8				
Other health assessment and treating occupations	389	127	120	246	—	10	—	13	42.7	35.6	84.3	88.2	35.4	61.8	—	—				
Teachers, except postsecondary	1 785	1 275	1 196	416	44	57	13	27	36.4	32.6	97.7	96.1	73.9	59.6	0.5	—				
Social scientists and urban planners	71	47	36	18	11	6	—	—	40.9	35.8	100.0	70.8	48.9	23.0	—	—				
Social and recreation workers	681	381	347	87	34	13	12	—	40.9	35.8	100.0	70.8	48.9	23.0	—	—				
Lawyers and judges	2 956	1 917	1 843	984	42	44	62	48	38.5	32.5	90.2	90.3	47.4	35.9	1.3	2.6				
Writers, artists, entertainers, and athletes	224	113	103	111	10	—	6	—	47.8	38.4	90.3	86.3	70.8	60.4	6.2	—				
Other professional specialty occupations	252 404	111 467	97 818	127 695	9 173	8 539	6 809	6 130	36.9	34.5	79.1	85.5	17.7	6.1	1.1	0.6				
Technical, sales, and administrative support occupations	23 723	13 477	12 008	8 926	839	823	540	502	34.0	33.4	89.1	81.6	28.1	19.4	0.3	0.2				
Technicians and related support occupations	344	132	76	194	40	14	10	4	32.6	32.6	60.6	85.8	24.2	28.8	—	—				
Health technicians	84	4	4	74	—	—	—	—	60.0	31.7	100.0	100.0	—	—	—	—				
Registered practical nurses	260	128	72	120	40	8	10	4	32.3	34.2	59.4	77.3	25.0	40.9	—	—				
Other health technicians and technicians	19 077	10 466	9 219	7 472	700	702	486	450	34.4	34.0	87.4	79.3	24.2	15.5	0.2	0.1				
Engineering and science technicians	635	580	539	75	35	—	16	12	34.2	28.8	90.5	97.3	10.7	10.7	—	—				
Electrical and electronic technicians	331	231	221	75	27	—	12	8	42.6	43.6	40.2	87.1	14.3	25.9	—	—				
Industrial and mechanical engineering technicians	1 285	846	738	97	28	—	43	8	32.0	27.1	93.1	87.1	13.5	25.9	—	—				
Drafting and surveying technicians	16 908	8 466	7 389	7 305	637	678	418	430	34.4	34.2	87.1	79.0	26.8	15.4	0.1	0.1				
Other engineering and science technicians	4 302	2 879	2 713	1 260	99	107	44	48	33.0	31.0	96.6	95.2	42.5	41.3	0.3	0.9				
Technicians, except health, engineering, and science	337	336	336	1	—	—	9	—	41.6	25.0	97.9	100.0	22.6	100.0	—	—				
Airplane pilots and navigators	46	26	26	20	—	—	13	—	30.7	30.9	98.7	96.9	40.4	41.0	—	—				
Air traffic controllers and broadcast equipment operators	2 396	1 518	1 445	806	51	51	13	29	30.9	31.1	98.7	96.9	40.4	41.0	0.2	1.5				
Computer programmers	1 523	999	906	433	48	56	22	6	37.5	31.1	92.8	94.3	52.9	43.1	0.5	—				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Food and kindred products											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
57 711	44 101	13 610	41 075	12 535	2 088	823	1 906	728	38.7	32.9	83.7	67.7
6 419	5 722	697	5 359	1 368	201	17	328	40	39.2	35.7	84.4	87.5
6 132	5 496	636	5 144	1 352	201	17	309	34	49.3	43.2	88.5	87.4
287	226	61	215	111	5	—	19	6	48.3	43.2	88.5	87.4
294	175	119	134	658	1 777	389	9	425	36.7	28.0	85.7	87.4
46 429	37 157	9 272	34 658	8 518	1 777	389	1 478	425	38.7	32.8	83.9	67.5
4 185	1 000	3 185	3 841	2 573	105	402	91	257	34.7	31.8	72.5	62.4
3 670	779	2 891	593	2 337	97	402	76	243	32.5	31.5	71.7	62.4
515	271	244	248	322	8	15	15	14	40.3	35.6	74.5	84.8
384	47	337	47	322	—	15	—	—	30.3	38.8	72.3	76.3
170 970	53 889	117 081	44 735	106 591	6 246	6 893	4 363	4 900	36.2	34.8	73.0	87.9
11 656	8 169	3 487	7 197	3 221	600	175	538	105	39.8	38.8	83.3	90.6
5 915	2 570	3 345	2 707	2 929	229	240	109	158	31.9	31.0	91.4	92.8
38 321	440	37 881	409	35 588	26	1 477	32	1 350	35.2	33.6	85.2	93.9
35 545	383	35 162	370	33 196	8	1 253	27	1 151	34.4	33.7	89.3	94.3
2 716	57	2 719	39	2 392	18	224	5	199	38.2	32.3	57.9	88.5
2 720	47	2 673	42	2 477	—	139	—	149	34.7	31.9	57.9	88.5
4 814	232	2 582	216	2 366	—	42	21	17	48.8	31.5	78.4	90.2
4 673	1 932	2 741	1 769	2 330	123	254	78	230	32.1	34.0	84.8	70.6
5 407	1 634	3 773	1 297	3 296	220	281	203	320	37.2	33.8	63.6	87.1
25 877	3 182	22 695	2 851	21 977	177	767	133	562	40.3	38.3	88.2	91.5
4 027	441	3 586	3 301	3 301	31	133	14	93	47.0	34.6	82.1	89.2
2 787	415	2 372	353	2 028	44	215	18	28	36.2	34.7	84.6	88.2
1 212	86	1 126	68	1 019	—	78	17	17	30.7	44.2	55.8	82.1
2 063	1 251	832	942	708	249	55	46	59	28.4	28.8	70.3	77.4
5 091	3 065	2 026	2 579	1 796	310	159	256	155	39.0	33.8	74.7	76.9
16 314	14 022	2 292	10 746	1 889	2 409	293	1 579	170	34.3	35.4	62.2	75.1
9 447	6 485	2 962	5 257	2 631	905	190	468	215	36.0	34.0	71.7	86.8
9 047	4 759	4 288	3 899	3 279	561	762	515	368	36.4	36.7	57.1	55.7
1 562	653	909	586	795	45	102	27	50	43.2	32.8	86.7	91.0
4 970	227	4 743	203	3 813	13	663	22	267	33.2	31.8	70.9	89.6
19 047	4 279	14 768	3 730	13 467	304	868	287	587	38.9	37.2	77.9	81.9
70 817	54 862	15 955	41 433	11 469	9 335	3 200	6 222	1 489	38.2	37.9	47.8	47.3
6 461	6 124	337	5 184	247	736	82	367	24	53.7	31.4	53.6	66.8
6 099	5 783	316	4 886	226	713	82	337	18	54.2	30.7	52.6	68.0
362	341	21	298	21	23	—	30	6	48.8	45.8	70.7	47.6
64 356	48 738	15 618	36 249	11 222	8 599	3 118	5 855	1 465	36.5	38.1	47.1	46.9
15 614	7 924	7 690	5 164	5 451	1 872	1 644	1 283	655	31.7	37.6	48.9	48.1
515	127	388	90	311	28	45	18	29	31.5	46.8	80.3	64.2
47 128	40 256	6 872	30 672	4 921	6 578	1 310	4 541	764	37.7	38.1	46.5	42.6
1 099	431	668	303	539	121	119	13	17	38.5	38.7	58.9	65.6
1 680	1 380	300	1 014	182	157	36	173	68	39.7	34.0	56.2	39.7
308 377	259 183	49 194	218 084	35 055	24 848	9 676	25 917	5 686	38.3	36.7	62.8	51.1
64 437	63 381	1 056	56 243	895	3 849	113	4 332	106	39.0	33.5	62.7	57.3
1 483	1 353	130	1 245	30	50	—	60	6	45.0	43.0	70.5	57.9
28 520	27 988	532	5 248	44	329	4	509	18	37.8	33.0	56.6	58.9
240	240	—	227	477	1 737	39	2 031	36	38.6	33.7	62.9	54.3
1 750	1 742	8	227	—	7	—	11	—	37.6	—	90.4	—
26 422	25 972	450	22 834	334	1 670	70	2 228	52	38.7	31.7	66.2	75.0
14 979	14 044	225	12 635	161	632	56	751	26	41.4	26.1	69.1	71.5
1 976	1 618	22	1 618	22	8	—	26	43.1	25	25	78.8	68.2
7 646	7 365	28	6 404	28	135	—	79	21	44.8	40.1	54.2	71.4
1 444	1 213	23	1 213	51	265	—	407	5	40.1	30.3	77.7	83.5
2 357	2 296	61	2 095	30	82	13	105	43	41.1	32.5	47.0	45.1
2 557	2 296	261	2 095	18	128	20	108	21	44.5	32.5	47.0	45.1
650	618	32	583	12	14	—	26	—	37.5	25	53.2	71.9

¹Persons of Spanish origin may be of any race.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con.

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A]

United States	Textile mill products																
	Race				Spanish origin ^a		Median age		Percent high school graduates		Percent completed 4 or more years of college						
	Total		Black		Male	Female	Male	Female	Male	Female	Male	Female					
	Both sexes	Male	Female	Male									Female	Male	Female		
Employed persons 16 years and over	946 423	496 696	449 727	398 113	352 048	85 677	84 907	22 049	18 271	36.8	37.6	50.6	48.3	8.5	2.0	0.7	0.7
Managerial and professional specialty occupations	65 121	51 515	13 606	49 111	12 630	1 603	680	965	316	37.6	42.1	87.7	83.0	46.5	20.1	2.1	4.2
Executive, administrative, and managerial occupations	49 305	40 762	8 543	39 058	8 006	1 185	391	830	185	38.6	42.9	86.9	84.3	45.2	15.8	2.3	4.5
Officials and administrators, public administration	1 961	1 557	404	1 463	383	52	12	29	9	38.2	41.0	98.4	86.6	68.5	10.1	—	—
Financial managers	3 457	3 172	285	3 136	267	15	12	62	18	43.3	43.3	97.6	98.6	57.8	24.9	—	—
Managers, marketing, advertising, and public relations	67	54	13	54	13	—	—	—	—	44.6	50.0	68.5	38.5	27.8	—	1.1	—
Administrators, education and related fields	2 629	2 078	551	1 998	512	55	23	62	—	—	—	—	—	—	—	—	—
Managers, medicine and health	31 696	27 436	4 260	26 344	3 954	716	243	571	130	40.8	40.0	84.8	88.0	59.3	19.4	1.2	8.6
Other specified managers	30 469	26 608	3 861	25 566	3 581	703	238	531	118	43.6	39.4	85.2	82.4	41.7	16.0	3.0	—
Managers and administrators, n.e.c.	1 227	828	399	778	373	13	5	40	12	47.6	45.2	71.9	73.4	23.2	21.6	98.2	91.7
Self-employed	9 495	6 465	3 030	6 063	2 877	347	101	106	28	36.0	36.0	86.1	85.9	46.4	14.0	1.2	0.5
Management related occupations	4 262	2 747	1 515	2 652	1 454	66	41	72	16	38.7	38.7	96.1	92.3	65.9	19.3	0.9	—
Accountants and auditors	2 771	1 991	780	1 770	710	206	38	22	6	39.8	39.8	71.5	70.0	25.1	7.6	0.7	1.2
Personal, training, and labor relations specialists	1 572	1 118	454	1 074	442	39	12	5	—	41.8	37.0	84.1	92.5	35.4	6.4	1.0	—
Buyers and purchasing agents	1 555	1 108	471	1 079	427	23	10	7	—	38.7	43.1	75.0	53.2	6.5	14.9	—	—
Inspectors and compliance officers	735	501	234	488	234	13	—	—	6	41.7	39.8	95.8	91.9	67.9	16.2	3.0	—
Other management related occupations	15 816	10 753	5 063	10 053	4 624	418	289	135	131	38.7	35.6	90.9	80.7	51.3	27.4	1.2	3.6
Professional specialty occupations	6 931	6 154	777	5 921	728	132	37	35	23	38.5	32.6	94.8	84.9	56.4	24.1	0.2	1.9
Engineers, architects, and surveyors	6 873	6 096	777	5 880	728	115	37	35	23	38.4	32.6	94.8	84.9	56.3	24.1	0.2	1.9
Architects	86	86	—	86	—	—	—	—	—	47.1	—	90.7	—	53.5	—	—	—
Engineers	243	230	13	216	13	14	—	5	—	41.1	30.9	97.0	46.2	61.3	—	—	—
Civil engineers	3 465	2 808	657	2 751	613	50	32	20	15	33.8	33.8	95.9	85.2	54.4	20.7	0.3	—
Electrical and electronic engineers	1 419	1 386	33	1 419	33	25	—	10	8	43.8	30.5	89.8	81.8	46.2	57.6	—	—
Mechanical engineers	1 660	1 586	74	1 479	69	26	5	10	8	38.5	27.3	97.2	90.5	68.0	43.2	0.3	20.3
Other engineers	551	445	106	428	100	—	—	—	10	38.2	30.0	100.0	100.0	52.1	49.1	1.6	—
Surveyors and mapping scientists	343	284	59	284	59	—	—	—	—	37.0	40.0	97.2	97.2	37.7	39.0	1.1	—
Computer systems analysts and scientists	91	36	55	29	55	7	—	—	—	39.5	40.0	83.3	61.8	77.8	—	—	—
Operations and systems researchers and analysts	1 162	1 009	153	916	116	28	15	16	4	41.5	29.8	93.8	96.7	70.0	74.5	—	—
Mathematical scientists	1 074	934	140	848	103	21	15	16	4	41.9	29.5	93.8	100.0	71.2	81.4	—	—
Natural scientists	88	75	13	68	13	7	—	—	—	32.3	33.1	93.3	61.5	54.7	—	—	—
Chemists, except biochemists	14	12	2	12	2	—	—	—	—	60.0	50.0	100.0	100.0	100.0	100.0	—	—
Other natural scientists	907	61	846	43	824	9	—	9	—	30.2	46.0	94.8	94.8	21.3	34.3	0.8	0.8
Health diagnosing occupations	889	49	840	31	818	9	—	9	—	31.5	45.8	81.6	94.8	26.5	34.5	—	—
Health assessment and treating occupations	18	12	6	12	6	—	—	—	—	25.0	60.0	50.0	100.0	—	—	—	—
Registered nurses	1 412	480	932	420	764	60	157	—	5	37.9	41.3	52.9	41.3	5.4	1.0	—	1.9
Other health assessment and treating occupations	335	250	85	234	85	4	—	—	—	36.6	29.4	74.9	100.0	62.4	43.5	6.0	—
Teachers, except postsecondary	29	21	8	17	8	—	—	—	—	54.3	30.0	100.0	100.0	100.0	100.0	98.6	—
Social scientists and urban planners	131	109	22	109	22	—	—	—	9	40.2	58.1	100.0	100.0	100.0	100.0	12.8	40.9
Social and recreation workers	3 682	1 784	1 898	1 551	1 771	159	28	75	80	38.3	32.8	84.1	88.9	36.2	33.3	4.0	7.1
Lawyers and judges	228	108	120	89	90	19	30	—	—	44.5	34.3	67.6	75.0	10.2	14.2	—	—
Writers, artists, entertainers, and athletes	119 195	47 662	71 533	41 671	65 579	4 977	4 876	1 836	1 882	37.3	35.6	73.4	81.1	18.5	4.5	1.3	0.3
Other professional specialty occupations	13 922	8 405	5 517	7 686	4 886	560	558	145	80	35.0	38.9	81.4	72.7	20.5	7.3	0.2	0.3
Technical, sales, and administrative support occupations	116	51	190	30	169	21	21	—	—	45.2	37.8	100.0	81.1	37.3	6.8	—	—
Technicians and related support occupations	116	51	190	30	169	21	21	—	—	45.2	37.8	100.0	81.1	37.3	6.8	—	—
Health technicians and technicians	125	51	74	30	60	21	14	—	—	30.7	43.0	100.0	93.2	37.3	6.8	—	—
Licensed practical nurses	9 301	4 955	4 346	4 487	3 821	369	477	85	78	34.6	40.4	83.3	70.3	16.3	3.8	0.1	0.4
Other health technicians and technicians	487	439	48	408	41	25	7	6	—	35.4	31.7	91.1	70.8	5.0	3.7	—	—
Engineering and science technicians	853	557	296	578	244	29	52	7	—	34.6	39.3	84.6	94.5	37.9	3.7	—	—
Electrical and electronic technicians	672	535	137	482	109	53	28	10	—	33.8	34.9	87.5	91.5	3.2	6.6	—	—
Industrial and mechanical engineering technicians	7 269	3 424	3 845	3 069	3 427	262	390	69	78	34.4	40.8	81.1	70.7	15.9	3.8	0.2	0.4
Drafting and surveying technicians	4 380	3 399	981	3 169	896	170	60	60	2	35.8	32.8	78.5	81.9	26.3	23.0	0.4	—
Other engineering and science technicians	101	101	—	94	—	—	—	—	—	31.6	—	86.1	—	31.4	3.6	—	—
Technicians, except health, engineering, and science	32	23	9	23	9	—	—	—	—	31.4	—	100.0	100.0	69.6	—	—	—
Airplane pilots and navigators	1 420	981	439	942	404	27	20	37	—	31.2	28.8	97.6	97.6	95.7	36.7	—	—
Air traffic controllers and broadcast equipment operators	2 827	2 294	533	2 110	483	143	40	23	2	40.2	39.4	69.7	70.2	18.7	12.2	0.6	—
Computer programmers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Textile mill products

	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female										
Both sexes	Male	Female	Male	Female										
14 279	10 930	3 349	290	202	166	162	42.0	35.0	91.0	78.6	42.7	16.5	5.1	3.2
1 043	761	282	45	32	38	30	39.8	37.4	86.2	70.6	33.9	8.9	8.3	2.1
698	634	230	37	32	38	30	44.4	30.0	76.2	100.0	22.2	100.0	100.0	100.0
69	51	5	8	—	—	—	40.0	34.2	100.0	100.0	31.1	—	—	—
93	45	48	—	136	106	126	42.3	34.4	92.3	80.3	44.3	18.4	5.0	3.6
12 548	9 637	2 464	172	136	106	126	42.3	34.4	92.3	80.3	44.3	18.4	5.0	3.6
571	328	34	73	34	6	6	39.5	38.7	43.5	69.9	9.6	9.9	—	1.9
355	209	362	15	34	6	6	46.2	37.4	49.3	71.5	9.0	4.5	—	2.4
216	142	74	58	34	11	74	39.0	42.1	40.8	63.5	9.9	31.1	—	—
24	24	—	—	—	5	—	—	—	79.2	—	—	—	—	—
90 994	28 327	62 667	4 147	4 116	1 525	1 640	35.5	35.3	64.2	82.0	8.6	3.6	0.2	0.2
5 535	1 679	3 856	382	67	177	89	40.3	39.0	73.3	85.5	19.7	6.7	—	—
2 953	1 282	1 671	135	120	25	38	41.2	39.7	89.2	88.2	12.9	3.6	0.7	—
18 023	17 723	16 836	5	712	26	304	33.7	33.7	78.0	91.7	21.7	4.4	—	—
15 719	15 683	225	5	535	17	284	45.2	33.8	75.8	92.4	24.6	4.7	—	—
2 104	64	1 823	—	30	7	67	37.2	32.6	85.9	86.5	10.9	2.1	—	—
2 308	2 040	186	—	46	7	47	25	32.6	85.9	86.5	10.9	2.1	—	—
1 498	134	1 364	26	41	8	35	40.4	33.0	55.6	80.9	—	4.7	—	—
2 891	912	1 979	44	214	37	89	40.6	38.5	55.9	84.9	25.0	8.1	—	—
3 574	808	2 766	104	215	53	125	35.0	35.0	66.8	74.2	12.4	1.4	—	—
7 060	738	6 322	44	232	62	242	41.6	40.2	91.3	88.2	21.4	5.4	0.7	0.7
2 591	176	2 415	6	142	—	27	38.2	38.2	85.2	86.0	4.0	1.6	—	—
2 132	228	1 904	22	150	15	66	36.7	36.5	89.0	76.9	12.7	2.6	—	—
584	43	541	21	35	—	15	32.5	42.6	74.4	80.0	9.3	—	—	—
821	249	572	22	17	18	32	41.2	35.6	55.5	57.7	11.9	3.9	0.4	2.2
2 195	2 885	2 614	126	216	87	21	36.1	35.6	77.0	72.0	1.6	2.9	—	—
9 188	7 219	2 872	1 663	217	739	91	32.5	36.6	52.9	60.2	3.0	0.2	—	—
3 637	3 315	2 327	1 753	273	127	64	34.6	35.0	56.5	48.4	3.0	0.3	—	—
1 038	828	617	174	125	36	20	32.8	40.1	53.0	50.1	3.0	0.3	—	—
1 277	383	894	51	84	5	19	34.4	33.8	76.8	87.5	29.8	6.3	1.8	—
2 720	246	2 474	59	365	7	54	29.8	32.3	81.3	91.6	4.5	1.7	—	—
13 954	2 572	11 382	311	845	96	222	42.9	36.5	66.3	79.1	11.3	2.3	0.5	0.2
25 967	20 920	5 047	4 784	2 396	553	159	46.9	47.2	30.2	28.3	1.1	1.1	0.2	—
4 613	4 391	222	417	16	—	—	58.2	46.3	28.2	45.0	—	—	—	—
4 480	4 208	272	394	16	44	13	58.6	46.3	28.2	45.0	—	—	—	—
183	183	—	33	—	—	—	47.3	47.3	61.7	47.3	3.8	—	0.6	—
21 354	16 579	4 825	4 367	2 380	509	146	47.3	47.3	30.3	27.5	—	—	—	—
662	151	511	64	210	6	24	39.6	45.8	29.1	46.0	0.9	1.1	0.1	—
19 772	15 822	3 950	4 177	2 056	499	117	26.1	47.6	29.1	71.6	31.3	3.5	—	—
816	540	276	122	106	4	—	43.5	47.6	30.0	23.6	0.8	0.7	—	—
536	425	111	161	—	7	—	33.1	35.8	37.1	35.1	1.7	—	0.1	—
142 051	124 869	17 182	12 357	2 355	3 805	928	39.5	49.5	28.0	44.1	4.5	—	—	—
62 307	58 851	3 456	6 958	615	1 492	94	40.7	40.8	49.4	48.8	4.5	2.4	0.6	0.9
871	830	41	103	—	31	—	42.2	40.8	48.2	42.1	0.8	0.6	0.2	—
46 764	44 620	2 144	5 061	415	1 021	44	41.9	40.0	38.7	—	1.7	—	—	—
330	330	—	53	—	—	—	39.0	34.8	38.6	44.8	0.6	—	0.6	—
709	695	14	100	—	—	—	38.5	—	77.0	—	2.7	—	—	—
12 818	11 574	1 244	1 569	200	415	50	38.7	42.6	54.1	57.1	1.5	1.6	—	—
10 082	9 702	380	829	75	356	23	40.5	45.3	45.3	36.5	—	—	—	—
395	341	54	14	8	23	—	38.1	45.0	54.0	38.4	1.6	—	0.4	—
1 862	1 750	112	243	38	47	—	45.5	33.4	65.7	77.8	1.6	—	2.4	—
4 811	4 796	15	183	—	—	—	40.7	40.5	40.5	5.4	6.2	—	3.2	—
524	499	25	58	—	52	—	37.7	38.8	62.8	100.0	1.3	—	5.7	—
1 007	986	21	102	—	69	—	40.6	54.2	28.3	—	1.9	—	0.4	—
1 483	1 330	153	229	29	165	8	43.6	47.0	49.5	52.0	0.9	—	2.6	—
							31.5	37.5	50.5	38.6	1.3	—	0.6	0.6

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Textile mill products			
	Race													
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Both sexes	Male	Female	Male	Female	Male	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Extrusive occupations	305	201	104	154	45	52	9	7	30.1	33.5	50.2	57.7	3.5	—
Precision production occupations	69 357	56 115	13 242	50 384	11 096	1 613	1 948	804	42.4	41.6	58.0	50.7	8.8	0.7
Supervisors, production occupations	55 880	46 363	9 317	42 351	8 122	840	1 297	486	42.8	42.6	59.8	51.9	9.7	—
Precision metalworking occupations	6 599	5 943	656	5 070	485	189	210	19	41.3	39.7	45.0	30.5	0.8	0.4
Tool and die makers	247	245	2	4 223	263	17	201	19	47.8	40.0	48.6	100.0	—	—
Machinists	5 400	4 985	415	4 266	263	150	201	19	40.8	36.7	43.8	32.8	0.5	0.4
Sheet metal workers	291	276	15	261	10	7	—	—	37.5	25	52.2	46.7	1.1	—
Other precision metal workers	661	437	224	320	112	12	391	274	44.6	46.0	53.1	24.6	4.8	—
Precision textile, apparel, and furnishings machine workers	4 601	1 798	2 803	1 448	2 107	510	—	—	33.8	38.1	51.5	50.5	8.9	3.0
Precision food production occupations	87	64	23	42	11	6	10	—	32.0	32.7	39.1	—	—	—
Precision inspectors, testers, and related workers	291	150	141	96	111	20	28	8	42.4	38.8	44.0	53.9	—	—
Plant and system operators	1 375	1 245	130	1 115	108	14	12	—	38.0	37.6	44.0	57.7	4.6	0.5
Other precision production occupations	524	352	172	262	139	24	17	—	38.0	45.3	52.8	66.9	4.0	1.2
Operators, fabricators, and laborers	593 553	251 305	342 248	181 056	256 940	74 600	14 883	14 986	32.7	37.6	41.0	40.4	1.4	0.3
Machine operators, assemblers, and inspectors	497 815	183 094	314 721	134 221	236 250	61 775	11 527	13 497	33.6	37.6	41.6	40.3	1.6	0.8
Machine operators and tenders, except precision	442 043	166 977	275 066	121 863	204 498	39 057	10 546	11 858	33.6	37.2	40.8	40.0	1.5	0.8
Metalworking and plastic working machine operators	2 743	1 625	1 138	1 278	836	243	22	56	36.4	35.8	45.4	35.3	0.9	0.6
Fabricating machine operators, n.e.c.	322	132	190	94	168	30	—	—	31.0	42.1	58.3	—	—	—
Metal and plastic processing and woodworking machine operators	3 025	2 029	996	1 517	738	247	70	59	33.1	35.5	42.4	50.3	0.9	1.7
Printing machine operators	3 652	2 400	1 252	1 902	1 020	208	223	34	33.2	34.2	48.4	44.8	2.8	0.8
Textile machine operators	274 104	104 127	169 977	75 756	124 835	24 779	6 457	5 037	33.9	37.0	38.9	38.4	1.4	0.9
Textile sewing machine operators	72 339	6 039	66 300	4 218	50 393	1 440	601	4 615	34.5	37.1	37.5	43.2	1.2	0.5
Laundry and dry cleaning machine operators	483	281	202	205	138	58	24	—	29.8	36.4	53.0	45.0	—	—
Packaging and filling machine operators	2 000	713	1 287	507	173	129	44	65	30.9	40.3	43.1	43.0	1.7	0.5
Furnace, kiln, and oven operators, except food	1 395	1 309	86	1 148	61	25	993	528	47.8	36.4	40.5	43.0	1.4	—
Other specified machine operators	30 275	21 219	9 056	15 863	6 918	1 796	467	—	32.4	36.4	44.7	42.1	2.1	1.0
Miscellaneous and not specified machine operators	51 705	27 103	24 602	19 364	18 278	5 537	1 938	1 461	33.0	36.6	40.5	40.3	1.3	0.6
Fabricators, assemblers, and hand working occupations	10 725	5 835	4 890	4 411	3 681	901	504	422	32.5	36.8	49.9	44.0	2.1	1.9
Welders and cutters	1 902	1 730	172	1 510	133	39	66	7	34.5	38.1	52.5	23.3	—	1.2
Solders and brazers	48	24	24	13	—	—	19	7	55.8	43.0	—	12.5	—	0.5
Assemblers	7 301	3 407	3 894	2 364	2 862	824	351	398	31.1	36.0	48.9	46.1	2.5	1.2
Hand working occupations	1 474	674	800	524	662	114	68	15	32.9	39.4	50.3	39.4	5.3	0.5
Production inspectors, testers, samplers, and weighers	45 027	10 282	34 745	7 947	28 071	5 916	477	1 217	34.5	41.9	49.8	42.4	2.5	0.7
Graders and sorters, except agricultural	3 512	824	2 688	604	2 129	203	28	63	36.6	45.1	40.7	38.1	2.2	0.4
Other production inspectors, testers, samplers, and weighers	41 515	9 458	32 057	7 343	25 942	1 906	249	1 154	34.4	41.7	50.6	42.8	2.5	0.7
Transportation and material moving occupations	26 243	22 715	3 528	16 100	2 834	514	37	346	32.9	36.8	41.3	48.4	1.1	0.2
Transportation occupations	8 442	8 095	347	5 931	283	59	390	14	38.8	35.3	39.1	73.2	1.2	2.2
Motor vehicle operators	8 276	7 958	318	5 813	260	53	380	5	38.8	34.5	39.0	71.4	1.1	0.4
Truck drivers	7 738	7 497	241	5 485	188	53	240	—	38.8	35.3	39.1	67.6	1.0	0.5
Driver-sales workers	234	195	39	169	39	26	—	—	41.6	26.6	42.1	84.6	—	—
Other motor vehicle operators	304	266	38	159	33	19	40	5	37.3	40.0	33.5	81.6	4.9	—
Rail and water transportation occupations	166	137	29	118	2 551	4 070	332	9	34.9	40.0	42.4	45.6	—	—
Supervisors, material moving equipment operators	17 801	14 620	3 181	10 169	2 551	455	557	332	29.9	37.0	49.6	43.1	1.0	0.1
Material moving equipment operators	76	69	7	49	7	20	4	—	38.0	50.0	85.5	—	—	—
Crane, hoist and winch operators	217	174	43	131	37	6	—	—	31.0	32.1	58.6	72.1	—	—
Grinding, grinding, and dozer machine operators	165	153	12	132	21	6	2	—	34.9	49.0	55.6	16.7	5.9	1.3
Other material moving equipment operators	17 343	14 224	3 119	9 857	2 501	443	551	332	29.8	37.0	41.9	45.5	0.9	0.1
Handers, equipment cleaners, laborers, and laborers	69 495	45 496	23 999	30 735	17 856	13 537	2 219	1 143	28.7	37.5	38.6	40.5	1.1	0.2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	136	107	29	107	23	6	—	—	43.3	56.5	61.7	20.7	7.5	20.7
Helpers, craft and production	2 246	1 795	451	1 341	286	390	143	86	29.9	34.3	37.9	38.1	0.7	—
Construction laborers	318	280	38	140	26	130	26	—	42.8	37.5	45.7	21.1	0.7	—
Freight, stock, and material handlers	28 093	21 869	6 224	14 146	4 391	7 425	578	112	27.1	34.3	38.6	41.3	0.8	0.1
Garage and service station occupations, and equipment cleaners	3 656	2 238	1 418	1 655	1 015	570	59	—	29.0	45.4	28.4	25.7	0.6	—
Hand packers and packagers	14 154	8 486	5 668	4 088	6 771	1 120	383	608	29.5	38.2	42.4	43.5	0.6	0.2
Laborers, except construction	20 872	13 721	7 171	9 258	5 344	3 902	1 030	324	30.9	38.6	38.6	39.4	1.5	0.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Apparel and other finished textile products																		
	Total				Spanish origin ^a				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Both sexes		Black		White		Female		Male		Female		Male		Female		Male		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	1 300 341	282 744	1 017 617	221 814	748 219	32 106	139 900	46 440	151 023	37.2	38.7	58.1	44.9	11.8	2.1	2.7	1.0	2.7	1.0
Managerial and professional specialty occupations	79 748	49 030	30 738	45 216	26 843	1 236	1 604	3 136	3 128	42.2	36.7	87.7	83.1	38.4	20.4	7.1	9.3	7.1	9.3
Executive, administrative, and managerial occupations	63 496	42 693	20 803	39 499	18 181	911	1 597	2 801	2 067	42.8	38.9	87.5	81.7	38.4	17.1	7.4	9.3	7.4	9.3
Office and administrative, public administration	2 609	1 763	846	1 698	803	11	15	70	26	39.7	41.8	96.7	96.3	69.0	24.3	3.2	4.1	3.2	4.1
Managers, marketing, advertising, and public relations	4 772	3 701	1 289	3 629	1 238	26	11	76	51	43.2	33.1	96.9	95.6	45.3	32.4	3.2	4.1	3.2	4.1
Administrators, education and related fields	2 247	1 947	1 050	1 845	865	—	—	—	—	45.0	33.9	100.0	100.0	100.0	41.7	25.0	14.7	25.0	14.7
Other specialized managers	44 038	31 590	12 448	29 168	10 905	—	—	—	—	42.0	39.9	81.2	82.2	42.8	11.0	6.3	4.1	6.3	4.1
Managers and administrators, n.e.c.	39 207	28 703	10 504	26 791	9 389	630	400	1 496	1 496	43.7	40.9	85.6	79.0	42.8	11.0	6.3	4.1	6.3	4.1
Self-employed	4 831	2 877	1 954	2 377	1 516	45	40	424	347	47.4	45.1	73.9	73.7	21.9	15.0	98.2	93.1	98.2	93.1
Management related occupations	9 540	4 378	5 162	3 875	4 325	191	475	275	354	36.6	34.8	91.2	81.9	52.2	15.8	2.5	1.1	2.5	1.1
Accountants and auditors	3 945	2 089	1 856	1 845	1 527	87	145	71	110	33.9	33.9	97.1	89.1	38.0	23.2	1.6	0.1	1.6	0.1
Personnel, training, and labor relations specialists	2 655	1 788	1 867	1 625	1 524	50	236	97	178	35.0	38.8	80.5	69.1	35.5	6.2	2.8	0.1	2.8	0.1
Buyers and purchasing agents	2 223	1 158	1 065	1 084	962	47	61	100	60	42.2	42.3	87.5	81.8	31.5	17.3	2.2	0.1	2.2	0.1
Inventory control and warehouse workers	3 525	2 177	2 866	321	247	7	8	7	6	42.1	34.0	94.0	91.6	65.8	29.0	8.0	4.1	8.0	4.1
Other management related occupations	622	336	286	321	247	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Professional specialty occupations	16 272	6 337	9 935	5 717	8 662	325	607	335	1 061	36.6	33.2	89.2	86.2	38.0	27.2	5.3	8.1	5.3	8.1
Engineers, architects, and surveyors	3 245	2 493	2 553	2 353	2 493	67	38	60	26	33.9	32.8	95.4	81.6	44.9	16.2	0.3	2.1	0.3	2.1
Architects	29	29	—	18	—	11	—	—	—	30.0	—	24.1	—	—	—	24.1	—	—	—
Engineers	3 209	2 457	752	2 328	683	56	38	60	26	32.8	32.8	96.2	81.6	45.3	16.2	—	—	—	—
Engineers, except civil	45	35	6	39	6	—	—	—	—	30.0	30.0	100.0	—	15.4	—	—	—	—	—
Civil	41	35	6	39	6	—	—	—	—	29.2	60.0	85.7	—	54.3	—	—	—	—	—
Electrical and electronic engineers	2 200	1 551	649	1 471	596	8	19	25	20	34.9	32.6	96.3	82.9	44.0	16.8	—	—	—	—
Industrial engineers	421	400	21	396	51	20	19	20	15	37.8	35.0	97.5	100.0	57.8	18.6	—	—	—	—
Mechanical engineers	502	432	70	390	21	20	19	15	—	30.0	33.0	100.0	—	58.8	—	—	—	—	—
Other engineers	7	7	—	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Surveyors and mapping scientists	447	277	170	271	160	—	5	—	6	38.2	32.1	100.0	95.3	48.4	61.8	—	—	—	—
Computer systems analysts and scientists	193	125	68	115	68	—	2	—	6	33.7	33.9	92.8	91.2	66.4	35.3	—	—	—	—
Operations and systems researchers and analysts	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical scientists	122	82	30	87	18	3	12	—	—	35.0	28.2	100.0	100.0	65.2	53.3	—	—	—	—
Natural scientists	10	10	—	10	—	—	—	—	—	35.0	28.2	100.0	100.0	73.2	53.3	—	—	—	—
Chemists, except biochemists	10	10	—	10	—	—	—	—	—	35.0	28.2	100.0	100.0	73.2	53.3	—	—	—	—
Other natural scientists	21	13	8	13	8	—	—	—	—	30.0	30.0	100.0	100.0	—	—	—	—	—	—
Health diagnosing occupations	139	21	118	8	113	—	—	—	—	30.0	40.9	100.0	100.0	—	—	—	—	—	—
Health assessment and treating occupations	114	8	106	8	101	—	—	—	—	30.0	41.6	100.0	100.0	—	—	—	—	—	—
Registered nurses	25	13	12	—	12	—	—	—	—	30.0	25.0	100.0	100.0	—	—	—	—	—	—
Other health assessment and treating occupations	1 452	193	1 259	117	1 062	65	129	12	174	34.5	35.1	68.9	58.1	15.0	4.2	9.3	5.1	9.3	5.1
Teachers, except postsecondary	288	172	116	162	103	—	13	—	—	31.2	31.4	100.0	95.7	68.0	52.6	—	—	—	—
Social scientists and urban planners	7	7	—	—	—	—	—	—	—	30.0	60.0	100.0	100.0	—	—	—	—	—	—
Life scientists	128	104	24	100	19	—	5	—	—	30.0	32.8	100.0	100.0	—	—	—	—	—	—
Life scientists, except biologists	10	10	—	10	—	—	—	—	—	30.0	32.8	100.0	100.0	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	2 779	7 315	2 431	6 365	61	182	393	248	844	38.2	38.2	82.2	91.0	25.2	30.8	10.8	10.1	10.8	10.1
Other professional specialty occupations	134	63	71	55	61	8	5	—	5	49.5	40.0	100.0	100.0	74.6	7.0	17.5	10.1	17.5	10.1
Technical, sales, and administrative support occupations	142 217	49 812	92 405	40 727	80 269	5 651	7 378	5 843	7 865	35.6	33.8	75.1	79.8	18.4	6.3	2.6	0.1	2.6	0.1
Technicians and related support occupations	3 591	1 830	1 761	1 635	1 506	133	150	63	118	32.9	31.3	90.8	78.9	27.7	12.9	1.1	0.1	1.1	0.1
Health technologists and technicians	49	6	43	6	17	—	—	—	—	25.0	31.3	100.0	65.1	—	—	—	—	—	—
Health technicians	27	—	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other health technicians	22	6	16	6	9	—	—	—	—	25.0	32.1	100.0	59.3	—	—	—	—	—	—
Engineering and science technicians	2 042	910	1 132	821	989	71	86	53	66	34.2	34.5	87.3	74.1	25.8	10.3	0.4	0.1	0.4	0.1
Electrical and electronic technicians	147	135	12	108	12	27	—	—	—	38.8	43.0	80.7	100.0	9.6	—	—	—	—	—
Industrial and mechanical engineering technicians	378	229	149	196	138	19	19	14	21	31.1	36.5	90.4	79.2	46.7	4.7	—	—	—	—
Drafting and surveying technicians	427	189	238	176	170	9	30	31.5	38.3	38.5	38.3	78.7	73.1	19.0	19.7	—	—	—	—
Other engineering and science technicians	1 090	357	733	341	649	16	56	21	20	34.1	33.2	93.3	73.0	22.1	8.6	1.1	0.1	1.1	0.1
Technicians, except health, engineering, and science	1 500	914	586	808	500	62	45	10	30	31.9	31.9	94.2	89.2	29.8	18.8	1.8	0.1	1.8	0.1
Airplane pilots and navigators	33	33	—	33	—	—	—	—	—	36.9	—	—	—	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	11	11	—	—	—	—	—	—	—	40.0	25.0	100.0	100.0	51.5	—	—	—	—	—
Computer programmers	1 026	612	414	545	351	32	28	10	24	30.6	29.4	97.9	94.4	33.2	100.0	2.6	0.1	2.6	0.1
Other technicians, except health, engineering, and science	430	264	166	225	149	30	11	—	6	34.3	43.3	84.8	75.9	19.7	18.1	—	—	—	—

Persons of Spanish origin may be of any race

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

United States

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
Sales occupations.....
Supervisors and proprietors, sales occupations.....
Salaried.....
Self-employed.....
Sales representatives, finance and business services.....
Sales representatives, commodities, except retail.....
Sales workers, retail and personal services.....
Cashiers.....
Other sales occupations, retail and personal services.....
Sales related occupations.....

Administrative support occupations, including clerical.....
Supervisors, administrative support occupations.....
Computer equipment operators.....
Secretaries, stenographers, and typists.....
Stenographers and typists.....
Receptionists.....
Other information clerks.....
File clerks.....
Other records processing occupations, except financial.....

Bookkeepers, accounting, and auditing clerks.....
Payroll and timekeeping clerks.....
Other financial records processing occupations.....
Telephone operators.....
Mail and message distributing occupations.....
Production coordinators and expeditors.....
Traffic, shipping, and receiving clerks.....
Stock and inventory clerks.....
Other material recording, scheduling, and distributing clerks.....
Adjusters and investigators.....
Data-entry keyers.....
Other administrative support occupations.....

Service occupations.....
Private household occupations.....
Protective service occupations.....
Guards.....
Other protective service occupations.....
Service occupations, except protective and household.....
Food preparation and service occupation.....
Health service occupations.....
Cleaning and building service occupations, except household.....
Personal service occupations.....

Farming, forestry, and fishing occupations.....

Precision production, craft, and repair occupations.....
Mechanics and repairers.....
Supervisors, mechanics and repairers.....
Automobile mechanics, including body.....
Industrial machinery repairers.....
Electronic repairers, communications and industrial equipment.....
Heating, air conditioning, and refrigeration mechanics.....
Other mechanics and repairers.....

Construction trades.....
Supervisors, construction occupations.....
Carpenters.....
Electricians.....
Painters, construction and maintenance.....
Plumbers, pipefitters, and steamfitters.....
Other construction trades.....

Apparel and other finished textile products													
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male								
29 463	18 604	10 859	17 884	9 427	371	753	784	591	90.5	76.8	33.5	16.2	4.1
1 529	1 352	1 229	1 425	1 229	31	42	162	69	87.1	81.3	31.6	22.9	7.9
2 636	1 591	1 245	1 297	1 128	31	42	153	63	87.3	80.2	33.7	22.2	100.0
245	138	107	128	101	—	—	9	6	84.1	77.1	10.1	29.9	—
111	26	85	26	77	—	—	—	—	100.0	100.0	100.0	100.0	—
16 831	8 625	7 684	8 601	601	336	601	599	438	91.0	77.1	33.6	15.7	4.0
25 456	16 243	8 625	16 243	8 625	4	102	23	84	92.3	60.2	28.8	3.3	6.1
933	721	558	721	558	—	—	23	75	78.3	58.2	31.9	3.7	—
722	72	650	55	508	—	100	23	75	82.9	78.9	27.1	—	—
211	140	71	129	60	4	2	—	—	100.0	92.1	—	47.4	—
82	6	76	6	69	—	—	—	—	—	—	—	—	—
109 163	29 378	79 785	21 208	6 475	5 147	6 475	5 016	7 160	64.3	80.3	8.3	4.8	0.2
7 484	3 756	3 728	3 033	1 336	431	261	444	428	75.6	77.6	15.3	39.0	0.2
3 931	1 837	2 094	1 860	1 609	125	119	88	255	87.1	85.8	10.8	6.2	—
16 187	297	15 890	228	14 389	17	886	46	1 100	85.5	90.4	32.7	5.0	0.1
14 106	248	13 858	195	12 751	17	606	41	900	85.1	91.5	32.7	3.2	0.5
2 081	49	2 032	33	1 638	13	280	5	200	87.8	82.5	32.7	5.7	—
2 206	45	2 161	32	1 832	13	214	8	232	80.0	80.6	17.3	3.8	—
51	491	542	47	408	—	—	4	43	74.5	74.5	37.3	4.7	—
3 005	401	2 604	349	2 135	12	313	42	206	65.1	62.7	8.2	1.8	—
4 665	1 047	3 618	618	2 938	239	444	308	528	62.4	77.4	5.3	3.7	0.3
13 513	1 214	12 299	952	11 098	105	591	165	899	92.0	89.1	30.3	8.2	0.9
4 362	158	4 204	114	3 974	15	165	37	217	81.0	86.8	3.7	2.9	—
2 350	326	2 024	224	1 571	61	272	67	244	71.5	89.0	6.4	1.7	—
16	557	16	541	458	10	49	—	81	37.5	33.8	1.7	—	—
1 048	656	372	355	343	168	352	202	18	45.3	62.5	1.2	5.4	—
4 528	2 944	1 584	1 385	2 599	146	299	108	242	73.9	74.7	18.4	7.2	1.8
13 132	6 932	8 845	5 569	959	2 952	358	2 538	798	35.0	33.6	55.5	57.5	0.1
20 064	3 252	2 888	2 281	346	624	346	519	280	61.9	67.0	7.2	1.3	0.2
3 394	1 004	2 391	255	1 785	64	129	78	158	31.3	32.6	2.0	0.2	—
1 398	394	1 004	255	1 785	64	129	78	158	31.3	32.6	2.0	0.2	—
1 451	264	1 187	254	1 000	—	—	30	35	87.9	91.0	30.7	15.8	1.0
2 845	70	2 775	66	2 205	—	—	17	267	92.9	86.7	2.9	1.3	—
13 937	1 651	12 286	1 304	10 618	165	901	315	1 199	72.0	79.3	12.4	4.2	0.1
16 377	11 709	4 668	8 700	2 794	2 194	1 422	1 409	699	30.9	35.0	2.1	3.2	2.0
2 292	2 122	110	1 807	70	—	—	—	—	—	—	—	—	—
2 217	2 115	102	1 800	34	264	34	101	7	37.5	50.9	3.6	—	—
15	8	62	180	6	264	34	101	7	37.3	47.1	3.6	—	—
14 143	9 587	4 558	6 892	2 724	1 920	1 388	1 308	692	100.0	100.0	—	—	2.0
144	184	360	92	256	54	71	45	83	29.4	34.6	1.8	3.3	—
165	158	358	92	256	54	71	45	83	42.4	38.5	8.2	0.6	—
12 545	9 232	3 313	6 455	1 794	1 863	1 178	1 248	509	57.1	57.3	1.3	2.0	—
891	184	727	136	598	13	88	15	89	20.4	27.3	25.0	11.1	8.9
134	85	49	57	37	28	—	8	16	45.9	40.8	—	—	4.1
126 892	63 379	63 513	52 589	50 461	5 600	6 173	9 607	10 568	55.2	49.0	4.6	2.6	1.8
15 155	13 385	1 770	11 550	1 482	1 239	198	1 226	175	52.8	47.1	1.3	1.8	0.8
218	183	35	218	22	12	13	18	14	64.5	42.9	4.9	—	—
303	270	33	246	24	18	3	31.5	8	38.0	81.8	2.2	9.1	—
10 317	9 759	558	8 447	460	900	67	835	59	45.6	47.5	1.0	2.0	—
17	11	6	11	6	—	—	—	6	100.0	100.0	—	—	—
91	91	—	91	—	—	—	6	—	59.3	—	—	—	—
4 209	3 071	1 138	2 591	970	309	115	327	102	54.2	45.7	1.8	1.1	1.2
2 884	2 606	278	2 292	228	177	44	257	38	36.3	39.7	4.1	2.5	9.4
174	141	33	141	28	36	5	9	—	56.5	66.7	6.4	—	10.4
510	478	32	440	18	36	14	41	—	87.2	36.0	1.7	—	—
516	512	4	443	4	31	—	—	—	39.3	25.0	1.4	—	—
244	185	59	134	37	23	16	34	15	61.9	100.0	3.2	—	—
132	107	21	89	14	5	7	7	—	18.9	71.2	11.9	—	11.9
1 318	1 183	129	1 045	127	82	2	113	23	63.5	69.8	5.0	—	17.1

¹¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Apparel and other finished textile products									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Extraction occupations	52	25	27	25	27	4184	5931	8124	10355	47.9
Precision production occupations	108 801	47 363	61 438	38 722	48 724	1 545	2 751	2 675	5 433	42.1
Supervisors, production occupations	55 995	20 860	35 135	17 855	29 601	1 545	2 751	2 675	5 433	42.1
Precision manufacturing occupations	55 312	3 312	2 263	2 607	2 901	1 545	2 751	2 675	5 433	42.1
Tool and die makers	2 444	1 437	907	1 087	628	27	202	169	222	41.6
Mechanists	2 351	1 437	907	1 087	628	27	202	169	222	41.6
Sheet metal workers	106	84	22	76	14	9	9	9	9	35.0
Other precision metal workers	2 411	1 353	1 058	1 040	1 030	24	44	102	167	33.6
Precision textile, apparel, and furnishings machine workers	44 572	22 052	22 520	17 040	16 089	2 243	2 496	4 994	4 241	31.4
Precision food production occupations	169	99	70	55	19	30	35	30	29	41.0
Precision inspectors, testers, and related workers	413	17	158	9	51	8	13	—	10	25.7
Plant and system operators	443	285	158	270	152	15	6	—	—	42.8
Other precision production occupations	2 219	1 001	1 218	886	933	69	126	119	153	47.1
Operators, fabricators, and laborers	934 973	108 729	826 244	74 525	607 815	17 397	123 323	26 437	128 747	32.2
Machine operators, assemblers, and inspectors	858 145	76 417	781 728	51 439	573 568	11 914	116 964	19 531	121 992	33.7
Metalworking and plastic working machine operators	791 059	68 469	722 590	45 656	527 066	10 737	108 078	18 175	115 831	33.8
Fabricating machine operators, n.e.c.	1 468	88	380	70	304	11	38	85	95	32.2
Metal and plastic processing and woodworking machine operators	4 860	1 373	3 487	1 084	2 302	193	1 008	193	322	34.3
Printing machine operators	2 966	1 045	1 921	802	1 460	184	351	193	322	34.3
Textile machine operators	14 196	5 470	8 726	4 136	6 393	978	1 976	512	632	30.0
Textile sewing machine operators	632 806	29 457	623 349	18 294	456 956	4 399	87 095	10 584	100 800	34.1
Laundry and dry cleaning machine operators	1 162	466	696	300	391	170	216	131	208	40.3
Packaging and filling machine operators	2 035	302	1 733	192	1 410	79	294	43	173	29.4
Furnace, kiln, and oven operators, except food	263	208	55	150	48	50	—	8	7	35.9
Other specified machine operators	63 127	17 483	45 644	12 331	31 586	2 426	10 520	3 912	6 302	36.7
Miscellaneous and not specified machine operators	48 005	12 107	35 898	7 977	25 634	2 235	6 638	2 557	7 018	32.5
Fabricators, assemblers, and hand working occupations	17 126	4 284	12 842	3 014	9 004	681	2 342	837	1 969	31.2
Welders and cutters	676	524	152	423	82	65	15	52	14	32.7
Solders and brazers	64	17	47	—	32	11	63	6	7	32.7
Assemblers	12 670	2 853	9 817	1 945	6 897	493	1 889	615	1 582	29.6
Hand working occupations	3 716	890	2 826	646	1 993	112	375	164	366	35.3
Production inspectors, testers, samplers, and weighers	49 960	3 665	46 295	2 769	37 498	496	6 544	519	4 192	35.4
Graders and sorters, except agricultural	3 112	728	2 384	479	1 913	121	275	55	237	42.2
Other production inspectors, testers, samplers, and weighers	46 848	2 937	43 911	2 290	35 585	375	6 269	464	3 955	34.5
Transportation and material moving occupations	18 260	10 669	7 591	7 780	6 123	1 734	783	2 315	1 440	41.2
Transportation occupations	5 722	5 517	205	4 075	108	755	205	1 348	42	35.5
Motor vehicle operators	5 690	5 499	191	4 057	102	755	56	1 348	42	35.5
Truck drivers	5 200	5 039	161	3 734	82	666	46	1 188	42	35.3
Drive-sales workers	179	161	18	131	13	22	22	24	—	47.7
Other motor vehicle operators	311	299	12	192	7	67	5	136	—	35.2
Rail and water transportation occupations	32	18	14	18	6	—	8	—	—	42.5
Material moving equipment operators	12 538	5 152	7 386	3 705	6 015	979	719	967	1 398	28.3
Supervisors, material moving equipment operators	115	72	43	47	43	8	—	18	5	29.7
Crane, hoist and winch operators	25	19	6	19	6	—	—	6	—	40.8
Excavating, grading, and dozer machine operators	31	13	18	4	18	9	—	—	—	32.2
Other material moving equipment operators	12 367	5 048	7 319	3 435	5 948	962	719	943	1 393	28.2
Handlers, equipment cleaners, helpers, and laborers	58 568	21 643	36 925	15 306	28 124	3 749	5 576	4 591	5 315	26.7
Supervisors, handlers, equipment cleaners, and laborers	58	47	11	47	7	—	4	—	—	42.4
Helpers, craft and production	1 218	558	660	363	430	92	80	244	306	25
Construction laborers	141	90	51	78	44	6	7	12	31.7	43.3
Freight, stock, and material handlers	10 301	4 624	5 677	3 399	4 734	869	741	764	350	25
Garage and service station occupations, and equipment cleaners	1 814	587	1 227	405	554	75	255	96	254	34.0
Hand packers and packagers	24 904	7 031	17 873	4 656	13 485	1 294	2 686	1 990	2 722	26.6
Laborers, except construction	20 132	8 706	11 426	6 358	8 580	1 413	1 803	1 485	1 683	28.0
Persons of Spanish origin may be of any race.										
Percent completed 4 or more years of college										
Male	8.0	48.0	100.0	48.0	49.0	—	—	—	—	—
Female	5.6	48.0	100.0	48.0	49.0	—	—	—	—	—
Percent self-employed	2.5	2.5	1.8	2.5	2.8	—	—	—	—	—
Male	0.2	0.2	0.2	0.2	0.2	—	—	—	—	—
Female	0.4	0.4	0.4	0.4	0.4	—	—	—	—	—
Percent completed 4 or more years of college	8.0	48.0	100.0	48.0	49.0	—	—	—	—	—
Male	5.6	48.0	100.0	48.0	49.0	—	—	—	—	—
Female	2.5	2.5	1.8	2.5	2.8	—	—	—	—	—
Percent self-employed	0.2	0.2	0.2	0.2	0.2	—	—	—	—	—
Male	0.4	0.4	0.4	0.4	0.4	—	—	—	—	—
Female	0.4	0.4	0.4	0.4	0.4	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Paper and allied products									
	Total				Race		Spanish origin ¹		Median age	
	Both sexes	Male	Female		White	Black	Male	Female	Male	Female
Employed persons 16 years and over	679 921	517 375	162 546		450 291	137 535	50 747	18 644	38.0	36.2
Managerial and professional specialty occupations	73 072	61 927	11 145		59 392	10 733	1 427	672	41.8	34.4
Executive, administrative, and managerial occupations	32 966	44 807	8 159		43 156	7 448	1 091	234	43.1	34.8
Officials and administrators, public administration	2 482	2 002	370		2 029	331	—	—	40.0	—
Financial managers	2 482	2 002	370		2 029	331	—	—	40.0	—
Managers, marketing, advertising, and public relations	6 533	6 002	531		5 943	487	92	20	42.8	33.8
Administrators, education and related fields	26	21	5		17	5	—	—	50.4	50.0
Managers, medicine and health	—	—	—		—	—	—	—	—	—
Other specified managers	2 426	1 884	542		1 732	507	—	—	43.0	34.3
Managers and administrators, n.e.c.	28 615	25 973	2 642		25 017	2 454	42	42	44.7	39.0
Salaried	28 204	25 639	2 565		24 695	2 404	509	35	44.7	38.9
Self-employed	411	354	57		322	50	31	7	44.3	42.6
Management related occupations	12 902	8 813	4 089		8 396	3 664	147	92	38.8	33.1
Accountants and auditors	6 260	4 078	2 182		3 863	1 903	56	45	35.9	32.1
Personnel, training, and labor relations specialists	2 442	1 669	773		1 573	702	55	8	40.1	33.6
Buyers and purchasing agents	3 113	2 259	854		2 206	800	28	39	42.6	34.6
Inspectors and compliance officers	82	49	33		47	28	6	—	49.4	39.5
Other management related occupations	1 005	758	247		707	231	2	—	41.3	33.5
Professional specialty occupations	20 106	17 120	2 986		16 236	2 725	270	71	38.0	33.3
Engineers, architects, and surveyors	10 832	10 212	620		9 700	584	117	6	38.1	29.2
Architects	7	7	—		7	—	—	—	30.0	—
Engineers	10 767	10 147	620		9 693	584	117	6	38.2	29.2
Civil engineers	353	346	7		334	7	10	—	42.4	25.2
Electrical and electronic engineers	738	725	13		697	13	14	—	34.9	25.2
Industrial engineers	2 825	2 441	384		2 369	377	23	—	38.1	25.2
Mechanical engineers	1 707	1 691	16		1 627	16	24	—	41.5	25.2
Other engineers	5 144	4 944	200		4 608	171	46	6	37.0	27.3
Surveyors and mapping scientists	58	58	—		58	—	—	—	33.4	—
Computer systems analysts and scientists	882	733	149		667	131	11	7	33.7	29.6
Operations and systems researchers and analysts	490	412	78		406	78	—	—	38.7	32.7
Mathematical scientists	151	83	68		83	68	—	—	39.0	28.3
Natural scientists	2 887	2 633	254		2 518	180	12	3	37.2	31.4
Chemists, except biochemists	1 444	1 257	187		1 173	134	12	3	39.8	33.5
Other natural scientists	1 443	1 376	67		1 345	46	—	—	34.4	30.9
Health diagnosing occupations	22	22	—		22	—	—	—	50.7	—
Health assessment and treating occupations	616	19	597		19	571	—	—	46.7	52.1
Registered nurses	607	10	597		10	571	—	—	57.9	52.1
Other health assessment and treating occupations	9	9	—		9	—	—	—	32.5	—
Teachers, except postsecondary	132	102	30		88	30	8	—	31.5	25.0
Social scientists and urban planners	448	335	113		305	120	34	—	36.5	32.2
Social and recreation workers	24	2	22		2	15	—	—	50.0	40.7
Lawyers and judges	277	240	37		240	25	—	—	41.3	30.9
Writers, artists, entertainers, and athletes	3 182	2 276	906		2 135	841	88	53	40.5	32.1
Other professional specialty occupations	148	51	97		51	82	—	2	33.9	42.2
Technical, sales, and administrative support occupations	114 781	58 428	56 353		53 662	52 183	1 660	1 326	39.5	34.6
Technicians and related support occupations	15 410	12 423	3 147		11 568	2 969	214	79	36.3	32.6
Health technicians and technicians	176	99	77		99	77	—	—	48.4	42.5
Licensed practical nurses	51	51	—		51	—	—	—	56.8	—
Other health technicians and technicians	125	99	26		99	26	—	—	48.4	30.0
Engineering and science technicians	10 990	8 808	2 182		8 374	1 979	153	53	37.6	34.2
Electrical and electronic technicians	764	715	49		695	49	20	8	36.0	34.2
Industrial and mechanical engineering technicians	1 920	1 627	293		1 550	264	17	9	40.7	29.8
Drafting and surveying technicians	1 507	1 328	179		1 246	156	47	21	33.5	29.3
Other engineering and science technicians	6 799	5 138	1 661		4 883	1 510	69	15	37.9	33.8
Technicians, except health, engineering, and science	4 244	3 356	888		3 095	813	61	26	33.7	29.3
Airplane pilots and navigators	137	137	—		137	—	—	—	40.1	—
Air traffic controllers and broadcast equipment operators	1 36	24	14		17	4	8	—	53.3	30.0
Computer programmers	1 377	888	489		820	389	8	5	31.2	27.9
Other technicians, except health, engineering, and science	2 752	2 307	445		2 121	418	53	13	34.3	30.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Paper and allied products																
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total		White		Black												
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
20 455	17 255	3 200	16 700	3 020	382	118	194	81	40.4	95.5	92.7	48.5	17.9	1.3	2.2	
987	855	132	830	126	9	—	16	6	41.8	92.9	93.9	45.5	20.5	4.6	—	
942	810	132	785	126	9	—	16	6	42.0	93.7	93.9	45.9	20.5	—	—	
45	45	—	—	—	—	—	—	—	35.7	77.8	—	37.8	—	86.7	—	
69	48	21	42	—	6	—	—	—	35.3	75.0	—	47.9	—	—	—	
18 994	16 174	2 820	15 676	2 651	347	113	172	75	39.3	93.3	90.5	49.0	19.0	1.2	1.9	
400	173	227	147	22	20	5	6	—	40.2	93.6	93.6	49.0	4.9	7.5	—	
136	24	112	107	107	12	5	6	—	36.9	77.5	81.1	18.5	2.7	—	—	
264	149	115	135	115	8	—	6	—	58.7	29.2	76.8	21.5	7.0	—	—	
5	5	—	—	—	—	—	—	—	34.0	85.2	85.2	—	—	—	—	
78 916	28 910	50 006	25 394	46 294	2 708	2 798	1 252	1 166	40.3	76.8	90.3	11.8	5.2	0.1	0.1	
916	4 484	1 538	4 161	1 323	240	93	132	38	43.8	83.9	94.4	12.6	1.1	0.4	0.4	
572	1 075	1 497	1 345	114	165	114	56	18	36.3	90.3	92.8	22.1	1.1	0.6	—	
18 997	1 048	18 949	196	17 771	12	706	—	390	39.2	87.8	95.5	8.8	4.9	—	—	
16 913	92	16 821	15 923	92	10	129	—	45	47.5	96.4	95.9	14.1	5.2	—	—	
2 064	36	2 028	1 848	180	16	59	—	66	28.8	96.4	92.2	—	2.8	—	—	
1 361	14	1 347	1 226	120	14	11	—	12	25	100.0	87.6	—	2.1	—	—	
380	100	280	86	255	35	50	18	75	44.4	86.0	95.4	33.0	2.1	—	—	
1 638	677	961	625	905	131	51	62	58	38.1	83.5	64.5	13.0	4.6	—	—	
2 939	991	1 948	858	1 770	76	131	42	58	38.8	78.6	90.3	15.0	9.0	—	—	
7 221	890	6 331	821	5 862	49	347	21	101	42.5	93.5	92.6	33.3	6.2	0.2	0.3	
1 851	288	1 563	272	1 489	16	161	8	38	48.2	97.2	90.5	17.4	3.5	1.4	—	
1 887	283	1 604	244	1 444	33	113	10	44	38.5	92.9	94.5	18.7	3.9	—	—	
505	44	461	44	424	37	37	20	20	37.1	59.1	77.7	—	—	—	—	
929	533	396	358	369	170	29	92	24	29.5	70.2	77.7	1.5	1.5	—	—	
3 751	2 313	1 435	2 101	1 338	157	80	91	38	40.5	85.5	83.6	17.1	9.1	0.3	0.4	
7 823	7 816	1 258	6 565	1 105	338	170	512	24	37.6	66.7	75.8	2.6	3.6	0.2	—	
2 061	3 842	1 371	3 456	1 242	284	159	139	53	40.4	70.2	86.4	5.3	6.1	—	—	
5 213	3 826	1 371	3 456	1 242	284	159	139	53	40.4	70.2	86.4	5.3	6.1	—	—	
1 799	1 330	469	1 168	403	196	59	39	10	41.9	70.2	62.0	6.2	1.7	0.5	—	
1 312	621	691	577	649	24	26	15	3	38.9	76.2	93.5	22.2	10.4	—	—	
2 294	352	1 942	2 764	1 636	41	237	47	61	33.4	71.0	90.5	5.4	1.4	—	—	
9 144	3 099	6 045	2 764	5 617	282	316	70	105	41.2	83.3	83.0	18.0	5.1	—	0.3	
16 079	13 899	2 180	11 864	1 589	1 697	553	573	24	45.3	55.6	50.0	2.4	0.6	0.3	0.5	
3 074	2 843	231	2 549	205	258	20	30	—	52.0	—	—	—	—	—	—	
2 769	2 538	231	2 264	205	238	20	30	—	52.5	53.7	54.5	3.2	—	0.3	—	
305	305	—	285	—	20	—	—	—	49.5	58.7	—	5.6	—	0.3	—	
13 005	11 056	1 949	9 315	1 384	1 439	533	543	24	43.1	56.0	49.5	2.2	0.6	0.3	0.5	
640	345	297	241	195	92	94	15	—	42.2	100.0	42.4	2.6	—	—	—	
93	10	83	8	77	6	—	—	—	50.0	86.7	86.7	100.0	—	—	—	
12 064	10 567	1 497	8 954	1 040	1 337	433	512	24	43.1	55.7	48.2	1.9	—	0.4	0.7	
208	136	72	120	72	10	—	16	—	45.7	61.8	63.9	12.5	16.7	—	—	
1 577	1 446	131	1 194	101	223	16	12	—	36.0	67.6	64.9	6.8	5.3	4.6	—	
116 040	110 848	5 192	102 752	4 344	6 066	608	3 702	311	41.9	71.9	63.2	5.7	5.6	0.2	0.6	
39 578	38 598	980	35 815	884	2 023	83	1 397	43	40.2	69.5	64.5	2.0	1.9	0.1	1.4	
861	861	—	812	—	—	—	—	—	46.2	78.5	—	7.9	—	—	—	
911	904	7	814	7	46	—	42	—	40.4	67.6	100.0	2.8	—	—	—	
17 084	16 424	660	15 082	599	949	48	728	24	38.6	67.0	58.8	1.6	0.8	0.1	—	
275	261	14	247	6	14	—	—	—	37.6	78.2	100.0	9.6	—	—	—	
127	127	—	125	—	2	—	—	—	32.2	81.9	—	6.3	—	—	—	
20 320	20 021	299	18 735	272	982	27	615	19	41.3	71.1	74.6	1.9	4.7	0.1	4.7	
16 668	16 537	131	15 660	108	709	19	230	13	40.8	78.6	38.2	3.0	3.1	0.4	5.3	
780	780	—	764	—	5	—	12	—	46.8	82.1	—	14.4	—	—	—	
1 497	1 480	17	1 390	17	54	—	49	—	40.5	62.2	5.9	2.9	—	2.8	—	
8 132	8 085	47	7 749	37	245	6	111	6	40.3	84.5	34.0	2.9	8.5	0.3	—	
644	637	7	510	7	127	—	7	—	44.0	62.3	28.6	3.1	—	—	—	
4 871	4 849	22	4 651	15	178	7	27	31	40.9	76.8	72.7	1.4	—	0.1	—	
744	706	38	596	32	100	6	31	7	37.6	68.4	39.5	2.3	—	—	18.4	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
87	69	18	63	18	6	506	2 075	255	31.6	47.0	89.9	44.4	10.1	6.6	—	—
59 707	55 644	4 063	51 214	3 830	3 328	2 019	1 460	173	43.4	41.2	71.5	63.8	9.1	8.5	0.3	0.3
43 010	39 964	3 046	37 115	2 849	2 015	1 005	471	56	44.0	42.1	72.7	66.5	11.3	9.7	0.3	0.2
11 062	10 445	617	9 222	1 223	21	48	112	41	46.0	45.0	65.2	66.5	2.2	2.2	—	—
1 794	1 742	52	1 667	75	933	158	321	41	39.7	36.9	67.3	43.0	1.7	—	0.4	—
8 036	7 555	481	6 461	1 094	343	15	38	11	42.8	40.0	73.3	59.4	0.7	7.2	0.2	—
358	343	15	340	3	51	—	—	—	25	50.0	43.6	50.7	6.9	—	—	—
874	805	69	754	63	17	—	15	2	42.4	30.8	57.1	57.1	4.2	5.1	—	—
168	101	67	101	12	10	—	69	9	35.4	36.9	91.6	38.5	7.3	—	—	—
91	77	14	77	83	273	34	13	—	40.6	40.8	57.5	74.3	3.0	—	—	—
121	95	26	83	105	—	—	—	—	—	—	—	—	—	—	—	—
4 814	4 696	118	4 387	309	—	—	—	—	—	—	—	—	—	—	—	—
441	266	175	229	126	—	—	—	—	—	—	—	—	—	—	—	—
358 372	270 827	87 545	221 427	69 145	37 715	13 668	19 041	7 737	34.4	37.1	62.4	52.8	1.7	1.1	0.2	0.2
250 141	186 384	63 757	154 336	50 547	23 841	9 961	13 593	5 268	34.6	37.6	63.9	52.3	1.8	1.1	0.2	0.1
217 278	170 341	46 937	140 909	37 064	21 888	7 483	12 611	4 045	34.5	37.2	63.7	52.0	1.7	1.0	0.2	0.1
3 087	2 548	539	2 033	467	378	14	183	23	36.8	38.0	61.9	58.2	0.9	—	0.4	—
733	436	297	349	283	75	—	32	—	31.7	40.7	63.8	58.2	2.5	—	—	—
10 549	8 843	1 706	7 443	1 446	1 151	240	434	52	33.5	41.3	61.4	44.7	1.2	0.9	0.3	—
14 286	12 835	1 451	11 119	1 716	1 077	161	1 094	77	34.6	37.6	67.0	62.5	1.7	1.4	0.1	0.3
2 682	2 228	454	2 049	398	150	44	29	22	34.6	41.6	68.4	54.6	1.4	1.3	—	—
1 845	581	1 264	439	962	93	218	73	115	33.9	40.9	57.8	44.9	1.2	0.5	—	0.4
81	70	11	48	11	22	—	—	—	39.0	50.0	57.1	54.5	—	—	—	—
3 437	1 692	1 745	1 371	1 488	250	192	123	174	33.1	36.9	65.6	45.6	1.2	0.7	—	—
4 716	4 670	46	4 262	33	367	13	43	—	40.0	41.3	69.1	28.3	1.1	—	—	—
43 646	35 109	8 537	29 234	6 806	4 652	1 298	1 970	673	34.5	37.3	61.3	52.4	1.6	1.4	0.4	0.1
132 216	101 329	30 887	82 562	23 932	13 673	5 249	8 630	2 909	34.4	36.7	64.0	52.4	1.9	1.0	0.1	—
18 373	10 528	7 845	8 641	6 081	1 366	1 225	807	799	34.6	36.8	62.0	54.0	1.2	1.6	0.2	0.3
3 971	3 862	109	3 608	109	190	22	125	7	38.6	27.4	69.0	80.7	0.1	—	0.2	—
53	32	21	19	5	7	—	—	—	25	41.6	59.4	—	21.9	—	—	—
12 755	5 458	7 297	4 014	5 675	1 072	1 102	653	774	31.1	36.5	56.9	53.6	1.9	1.7	—	0.3
1 594	1 176	418	1 000	176	147	85	29	18	38.8	43.2	62.8	56.7	1.5	—	0.9	—
14 490	5 515	8 975	4 786	7 402	587	1 253	1 755	424	39.4	42.3	74.2	52.7	3.9	0.9	0.4	—
1 790	756	1 034	552	810	164	185	36	39	38.0	39.9	60.3	49.7	—	0.6	0.8	0.2
12 700	4 759	7 941	4 234	6 592	423	1 068	139	385	39.6	42.5	76.4	53.1	4.5	1.0	0.3	—
45 451	42 942	2 509	34 862	2 010	6 621	387	2 409	182	36.6	32.8	55.3	64.8	1.2	1.1	0.4	2.2
17 289	16 923	366	13 595	245	2 807	113	902	20	39.5	37.3	49.0	53.0	1.5	2.5	0.9	13.1
16 932	16 588	344	13 286	231	2 785	105	902	20	39.5	37.3	48.9	50.0	1.5	2.6	0.9	14.0
16 288	15 962	326	12 893	214	2 650	105	787	20	39.6	37.2	49.2	49.1	1.5	2.8	1.0	14.7
61	55	6	42	6	13	—	—	—	30.9	30.0	60.0	100.0	—	—	—	—
583	571	12	351	11	122	—	115	—	35.4	45.0	38.5	50.0	1.8	—	—	—
357	335	22	309	14	22	8	—	—	42.6	37.5	54.0	100.0	—	—	—	—
28 162	26 019	2 143	21 267	1 665	3 814	274	1 507	162	34.5	32.2	59.4	66.8	1.1	0.8	0.1	0.3
423	418	5	397	15	16	—	5	—	48.9	40.0	78.9	—	9.1	—	—	—
1 951	1 920	31	1 541	18	341	6	44	—	40.5	25	63.4	90.3	0.7	—	0.3	—
715	710	5	576	2	119	3	6	—	36.3	25	52.7	40.0	—	—	—	—
25 073	22 971	2 102	18 753	1 740	3 338	265	1 452	162	34.0	32.3	59.0	66.7	1.0	0.9	0.1	0.3
62 780	41 501	21 279	32 229	16 588	7 253	3 320	3 039	2 287	31.6	35.5	63.0	52.8	2.1	0.9	0.3	0.1
88	88	—	88	—	5	—	—	—	37.0	—	92.0	—	8.0	—	—	—
5 482	4 785	697	3 856	570	714	111	433	103	32.0	36.1	63.7	55.4	2.0	—	0.2	—
11 710	9 845	1 865	6 288	15	56	—	26	—	32.6	38.2	63.9	26.7	1.6	—	—	—
11 716	9 545	2 171	7 653	1 660	1 506	397	504	193	32.1	36.0	60.7	46.9	1.4	0.3	0.2	—
854	764	90	653	69	106	21	18	—	32.8	31.6	61.6	67.8	1.0	—	1.6	—
19 659	6 244	13 415	4 789	10 471	937	1 979	773	1 578	30.3	36.4	63.3	52.9	2.3	1.0	—	—
24 271	19 380	4 891	14 567	3 783	3 929	812	1 285	413	31.5	33.3	63.6	53.9	2.5	1.2	0.5	0.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

	United States									
	Race									
	Total		White		Black		Spanish origin ¹		Median age	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	905 722	652 307	822 330	565 487	54 315	41 349	44 038	25 464	35.9	33.7
Managerial and professional specialty occupations	363 486	231 380	220 018	124 980	6 108	4 408	5 624	2 779	39.0	33.2
Executive, administrative, and managerial occupations	172 860	125 715	120 248	44 197	3 044	1 876	2 978	1 260	41.8	35.8
Officials and administrators, public administration	6	6	6	6	72	39	80	38	65+	—
Financial managers	5 135	3 448	3 341	1 614	72	39	639	159	39.2	37.6
Managers, marketing, advertising, and public relations	33 841	25 703	24 566	7 880	748	171	639	159	39.0	34.0
Administrators, education and related fields	113	55	58	58	—	—	—	—	50.9	48.6
Managers, medicine and health	4 095	2 707	2 592	1 274	76	95	95	18	41.2	39.2
Other specified managers	110 470	82 774	79 550	26 925	1 682	838	1 897	734	43.2	37.3
Managers and administrators, n.e.c.	95 789	71 510	68 812	22 927	1 464	800	1 619	659	42.9	36.3
Self-employed	14 681	11 264	10 738	3 298	218	38	278	75	45.5	43.0
Management related occupations	19 200	11 022	10 138	7 076	466	733	267	311	37.0	33.3
Accountants and auditors	10 262	5 941	5 346	3 755	257	300	135	179	34.1	32.5
Personnel, training, and labor relations specialists	3 411	1 927	1 755	1 246	138	174	53	75	40.0	34.3
Buyers and purchasing agents	2 881	1 610	1 549	1 124	43	127	11	48	39.1	34.6
Inspectors and compliance officers	114	54	54	14	—	—	—	—	37.5	45.0
Other management related occupations	2 532	1 490	1 434	937	28	86	68	9	43.8	33.2
Professional specialty occupations	190 626	105 665	99 770	80 783	3 064	2 532	2 646	1 519	34.7	32.1
Engineers, architects, and surveyors	4 036	3 545	3 289	462	128	23	66	20	39.5	31.8
Architects	51	38	32	13	6	—	—	—	45.0	26.9
Engineers	3 962	3 484	3 234	449	122	23	50	20	39.5	31.9
Chief engineers	88	88	81	—	7	—	—	—	37.3	—
Electrical and electronic engineers	408	402	320	—	52	—	9	—	36.5	40.0
Industrial engineers	1 733	1 303	1 255	407	18	23	7	20	37.3	31.8
Mechanical engineers	659	654	624	5	17	—	18	—	46.2	40.0
Other engineers	1 074	1 037	954	37	28	—	16	—	40.2	30.8
Surveyors and mapping scientists	23	—	23	—	—	—	—	—	30.7	—
Computer systems analysts and scientists	1 585	1 220	1 132	335	72	26	31	—	34.2	33.5
Operations and systems researchers and analysts	794	543	499	217	17	34	—	—	33.9	33.2
Mathematical scientists	456	166	141	256	12	18	—	—	36.8	32.5
Natural scientists	440	316	270	95	25	5	—	6	40.8	38.7
Chemists and physicists	313	263	217	27	25	5	—	6	40.2	38.0
Other natural scientists	177	123	53	68	—	—	—	—	42.6	39.1
Health diagnosing occupations	78	47	47	31	—	—	7	—	56.3	32.4
Health assessment and treating occupations	608	198	153	382	6	10	5	—	34.7	46.0
Registered nurses	557	170	153	382	6	5	5	—	37.0	45.8
Other health assessment and treating occupations	51	28	28	18	—	—	—	—	30.4	49.2
Teachers, except postsecondary	492	220	214	234	6	23	—	—	34.1	32.7
Social scientists and urban planners	2 162	1 151	1 116	924	11	53	30	20	36.5	31.0
Social and recreation workers	162	93	87	59	6	14	2	—	40.7	27.0
Lawyers and judges	638	496	485	136	9	—	4	—	35.4	31.9
Writers, artists, entertainers, and athletes	177 504	96 937	91 654	76 807	2 735	2 242	2 471	1 434	35.4	32.1
Other professional specialty occupations	1 667	733	653	827	37	78	41	27	34.3	34.4
Technical, sales, and administrative support occupations	508 859	208 032	189 840	272 967	12 451	19 643	8 566	10 869	32.5	33.6
Technicians and related support occupations	20 048	14 229	13 016	5 178	614	21	716	217	33.9	31.5
Health technologists and technicians	165	88	88	49	—	—	—	—	37.5	29.5
Licensed practical nurses	48	17	17	9	—	—	—	—	25.7	100.0
Other health technologists and technicians	118	71	71	40	—	—	—	—	38.6	31.5
Engineering and science technicians	12 423	9 606	8 835	2 583	366	162	563	117	34.6	31.4
Electrical and electronic technicians	7 384	6 295	5 829	984	221	77	387	47	34.6	31.1
Industrial and mechanical engineering technicians	80	42	42	29	—	—	—	—	30.6	30.5
Drafting and surveying technicians	2 652	1 612	1 448	967	71	45	130	45	37.4	32.1
Other engineering and science technicians	2 307	1 657	1 516	603	74	31	46	25	37.4	32.1
Technicians, except health, engineering, and science	7 459	4 535	4 093	2 546	248	259	153	97	31.7	31.6
Airplane pilots and navigators	130	130	120	—	—	—	—	—	39.0	39.0
Air traffic controllers and broadcast equipment operators	104	67	120	—	—	—	—	—	39.0	39.0
Computer programmers	4 196	2 816	2 534	1 380	167	18	12	—	33.5	25.0
Other technicians, except health, engineering, and science	3 029	1 522	1 362	1 327	81	125	69	73	32.1	33.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States																	
Printing, publishing, and allied industries																	
Both sexes	Total		Race		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
			White		Black												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Technical, sales, and administrative support occupations—Con.																	
Sales occupations	177 935	118 560	59 375	112 323	55 926	4 141	2 330	3 231	1 785	31.9	32.1	67.4	76.9	25.4	16.6	7.8	
Supervisors and proprietors, sales occupations	6 440	4 071	2 369	3 873	2 217	148	55	102	122	39.4	36.8	86.7	88.4	25.5	13.8	8.4	
Self-employed	5 979	3 722	2 257	3 535	2 116	144	55	95	122	39.1	36.7	86.1	88.9	25.3	14.2	8.4	
Sales representatives, finance and business services	89 203	60 325	28 878	58 524	27 342	1 187	1 038	1 092	819	32.6	32.7	93.4	91.9	28.4	27.8	98.0	
Sales representatives, commodities, except retail	343	242	101	343	101	13	13	7	7	36.9	35.2	94.2	75.2	49.2	18.8	7.4	
Sales workers, retail and personal services	81 876	53 876	28 000	49 683	26 239	2 793	1 237	2 030	837	25	30.6	35.6	60.5	4.8	5.3	10.7	
Cashiers	79 935	53 295	26 640	49 160	25 048	2 761	1 108	1 938	731	40.2	38.4	32.1	77.2	15.3	8.4	5.2	
Other sales occupations, retail and personal services	73	46	27	35	27	—	—	—	—	25	30.4	35.4	59.7	4.7	5.2	10.8	
Sales related occupations	310 876	235 633	64 501	211 863	7 696	16 871	4 619	8 867	33.1	34.2	77.9	87.4	14.3	8.9	0.7	1.0	
Administrative support occupations, including clerical	16 300	8 261	8 039	7 303	7 344	678	535	420	245	38.7	39.6	86.8	91.1	20.6	11.0	0.4	0.8
Supervisors, administrative support occupations	9 964	3 933	6 031	3 933	3 711	371	335	225	318	32.0	32.7	90.9	90.7	13.2	6.4	—	0.1
Computer equipment operators	72 697	1 756	70 941	1 756	64 646	130	4 283	106	2 728	33.3	32.7	88.8	92.2	27.7	8.3	1.6	0.9
Secretaries, stenographers, and typists	50 439	803	49 636	726	46 122	61	2 483	34	831	33.6	33.1	86.6	93.7	35.0	9.3	0.5	0.9
Secretaries	22 258	953	21 305	795	18 524	69	1 939	72	897	32.9	31.4	90.8	88.6	21.5	5.7	2.5	1.1
Stenographers and typists	7 092	152	6 940	121	6 257	28	454	9	323	27.8	30.4	80.3	86.4	10.5	7.4	—	0.6
Receptionists	4 233	871	3 362	783	2 944	76	329	25	100	26.6	32.9	78.9	81.6	15.6	10.2	1.3	0.8
Other information clerks	6 440	1 320	5 120	1 320	4 260	119	734	66	230	31.9	32.4	81.0	74.5	17.2	6.8	1.0	0.8
File clerks	19 941	3 847	16 094	3 418	14 209	303	3 115	142	673	32.4	33.4	82.1	88.4	17.2	12.2	1.3	0.4
Other records processing occupations, except financial	32 990	2 616	30 374	2 247	28 176	247	1 621	243	883	35.1	39.2	90.4	91.8	25.5	7.8	1.2	2.5
Bookkeepers, accounting, and auditing clerks	2 253	324	1 929	225	1 725	45	132	26	72	42.4	36.8	91.6	91.6	17.1	4.8	—	0.3
Payroll and timekeeping clerks	5 738	891	4 847	797	4 397	75	302	26	164	38.6	33.0	94.9	90.2	22.4	6.6	1.7	0.5
Other financial records processing occupations	2 995	220	2 775	189	2 380	31	352	4	83	27.5	41.0	83.6	78.6	20.5	2.5	—	0.2
Telephone operators	23 597	16 095	7 502	13 476	6 422	2 030	822	947	289	30.5	34.9	89.6	86.0	4.4	4.1	0.5	0.6
Mail and message distributing occupations	10 896	4 827	6 069	4 458	5 537	268	411	198	234	36.9	32.6	89.6	86.0	20.1	13.8	1.1	0.2
Production coordinators and expeditors	12 763	9 457	3 106	7 456	2 752	1 414	281	911	167	31.0	35.1	69.0	72.6	4.6	2.6	0.1	0.2
Traffic, shipping, and receiving clerks	5 479	3 509	1 970	2 846	1 743	533	160	253	123	32.0	32.9	69.5	81.3	4.9	4.9	0.3	0.4
Stock and inventory clerks	7 334	657	1 077	2 846	1 994	80	57	25	60	37.0	34.9	69.3	75.2	5.6	7.6	2.5	2.5
Other material recording, scheduling, and distributing clerks	5 462	2 071	3 391	1 875	994	111	317	136	94	33.8	32.0	89.7	91.2	31.2	14.6	1.3	0.6
Adjusters and investigators	7 809	7 073	8 736	1 875	6 941	74	1 383	109	501	40.0	38.3	84.0	89.8	15.2	5.0	1.9	0.3
Data-entry keyers	60 473	13 143	47 330	11 499	42 951	1 083	3 050	754	1 580	31.9	36.4	78.3	82.1	20.8	11.8	1.0	1.1
Other administrative support occupations	20 188	16 082	4 106	11 659	2 863	3 777	1 117	1 223	292	42.7	45.4	48.8	48.7	3.6	2.9	0.4	1.1
Service occupations																	
Private household occupations	2 905	2 646	259	1 992	139	608	120	152	10	52.1	45.6	60.4	67.6	4.9	6.6	—	1.5
Protective service occupations	2 840	2 587	253	1 938	139	603	114	152	10	51.9	45.9	60.3	66.8	5.0	4.3	—	1.6
Guard	65	59	6	54	—	5	6	—	—	57.0	30.0	64.4	100.0	—	—	—	—
Other protective service occupations	17 283	13 436	3 847	9 667	2 724	3 169	997	1 071	282	40.2	45.4	46.6	57.5	10.2	4.5	0.4	1.1
Food preparation and service occupation	1 303	548	755	364	608	150	121	15	15	30.3	43.3	34.6	37.5	—	—	—	—
Health service occupations	15 280	12 715	2 565	9 153	1 698	3 006	767	960	259	30.3	35.0	83.3	100.0	3.0	1.7	0.4	0.8
Cleaning and building service occupations, except household	102	42	60	34	60	8	—	—	—	40.9	47.9	43.8	40.1	—	—	—	—
Personal service occupations	598	131	467	116	358	3 006	767	259	8	36.7	35.6	78.6	64.9	13.7	5.6	3.8	4.7
Farming, forestry, and fishing occupations	316	243	73	230	38	2	26	16	—	37.6	39.3	70.0	67.1	14.0	19.2	4.5	—
Precision production, craft, and repair occupations																	
Mechanics and repairers	124 849	92 358	32 491	84 868	28 296	4 801	2 970	2 076	40.5	38.2	78.6	69.0	69.0	8.4	7.6	3.0	1.8
Supervisors, mechanics and repairers	12 923	11 980	943	10 930	779	699	152	36	38.1	35.1	73.1	73.1	67.2	4.3	4.8	1.7	3.9
Automobile mechanics, including body	269	267	2	251	8	16	4	—	—	45.9	40.0	77.2	100.0	11.6	—	—	—
Automobile mechanics, excluding body	765	753	12	659	8	81	26	—	—	36.5	27.5	74.8	58.3	3.5	—	2.4	—
Industrial machinery repairers	7 205	6 765	440	6 220	355	372	78	298	6	39.3	35.7	72.1	69.8	3.5	3.4	1.9	1.4
Electronic repairers, communications and industrial equipment	210	196	14	167	14	5	—	—	—	34.6	40.0	97.4	100.0	15.8	42.9	—	42.9
Heating, air conditioning, and refrigeration mechanics	4 312	3 837	475	3 471	400	225	70	252	30	34.6	34.6	72.5	64.0	5.0	5.1	1.4	5.3
Other mechanics and repairers	5 233	4 971	262	4 528	219	295	37	260	20	40.5	31.5	75.1	80.5	4.1	9.5	3.8	1.9
Construction trades	343	807	51	724	29	61	22	9	2	46.9	58.0	81.3	100.0	2.1	—	3.6	—
Supervisors, construction occupations	2 397	2 374	23	2 215	23	83	9	—	—	42.1	28.9	84.2	95.7	4.4	26.1	3.1	—
Carpenters	359	348	11	340	11	8	—	—	—	33.0	30.3	61.4	70.0	5.2	10.0	0.8	—
Electricians	343	263	80	263	11	49	—	—	—	43.4	25	76.1	100.0	3.2	45.5	4.6	—
Painters, construction and maintenance	343	263	80	263	11	49	—	—	—	43.4	25	76.1	100.0	3.2	45.5	4.6	—
Plumbers, pipefitters, and steamfitters	343	263	80	263	11	49	—	—	—	43.4	25	76.1	100.0	3.2	45.5	4.6	—
Other construction trades	343	263	80	263	11	49	—	—	—	43.4	25	76.1	100.0	3.2	45.5	4.6	—

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																										
Employed persons 16 years and over—Con.										Printing, publishing, and allied industries																
Race					Spanish origin ¹					Median age					Percent high school graduates					Percent completed 4 or more years of college					Percent self-employed	
Total		Male		Female	White		Black		Male		Female	Male		Female	Male		Female	Male		Female	Male	Female				
Both sexes																										
45	35	10	35	10	27	288	35	27	288	35	27	288	35	27	288	35	27	288	35	27	288	35				
106 648	75 372	31 276	69 375	10 427	14 427	1 427	10 427	14 427	1 427	10 427	14 427	1 427	10 427	14 427	1 427	10 427	14 427	1 427	10 427	14 427	1 427	10 427				
68 771	48 142	16 427	31 715	5 413	7 715	1 413	5 413	7 715	1 413	5 413	7 715	1 413	5 413	7 715	1 413	5 413	7 715	1 413	5 413	7 715	1 413	5 413				
9 771	8 076	2 771	5 305	1 076	1 427	1 076	1 076	1 427	1 076	1 427	1 076	1 427	1 076	1 427	1 076	1 427	1 076	1 427	1 076	1 427	1 076	1 427				
3 748	3 371	377	3 000	377	224	224	377	224	377	224	377	224	377	224	377	224	377	224	377	224	377	224				
1 633	1 577	157	1 420	157	6	6	157	6	157	6	157	6	157	6	157	6	157	6	157	6	157	6				
5 157	3 805	1 352	2 453	1 352	1 210	1 210	1 352	1 210	1 352	1 210	1 352	1 210	1 352	1 210	1 352	1 210	1 352	1 210	1 352	1 210	1 352	1 210				
1 148	36	36	24	36	84	84	36	84	36	84	36	84	36	84	36	84	36	84	36	84	36	84				
339	259	80	224	80	60	60	224	60	224	60	224	60	224	60	224	60	224	60	224	60	224	60				
120	77	43	61	43	43	43	61	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43				
961	882	79	789	79	72	72	789	72	789	72	789	72	789	72	789	72	789	72	789	72	789	72				
26 740	11 970	14 770	10 462	12 646	888	1 391	7	12 646	888	1 391	7	12 646	888	1 391	7	12 646	888	1 391	7	12 646	888	1 391				
513 331	357 627	155 704	315 715	136 343	27 176	13 185	24 337	136 343	27 176	13 185	24 337	136 343	27 176	13 185	24 337	136 343	27 176	13 185	24 337	136 343	27 176	13 185				
434 963	301 091	133 872	269 838	117 903	18 979	8 315	19 564	117 903	18 979	8 315	19 564	117 903	18 979	8 315	19 564	117 903	18 979	8 315	19 564	117 903	18 979	8 315				
408 044	292 960	115 084	263 070	102 581	17 993	8 315	19 564	102 581	17 993	8 315	19 564	102 581	17 993	8 315	19 564	102 581	17 993	8 315	19 564	102 581	17 993	8 315				
2 310	1 431	879	1 196	1 196	167	167	1 196	167	1 196	167	1 196	167	1 196	167	1 196	167	1 196	167	1 196	167	1 196	167				
425	214	214	181	207	7	7	207	7	207	7	207	7	207	7	207	7	207	7	207	7	207	7				
3 285	2 687	598	2 411	526	188	49	157	526	188	49	157	526	188	49	157	526	188	49	157	526	188	49				
318 128	241 670	76 458	219 735	69 688	13 098	4 447	14 165	69 688	13 098	4 447	14 165	69 688	13 098	4 447	14 165	69 688	13 098	4 447	14 165	69 688	13 098	4 447				
865	429	361	429	279	43	70	35	279	43	70	35	279	43	70	35	279	43	70	35	279	43	70				
2 192	348	1 844	312	1 493	25	230	12	1 493	25	230	12	1 493	25	230	12	1 493	25	230	12	1 493	25	230				
157	76	81	55	63	21	8	—	63	21	8	—	63	21	8	—	63	21	8	—	63	21	8				
1 645	696	949	583	818	57	111	75	818	57	111	75	818	57	111	75	818	57	111	75	818	57	111				
328	255	73	229	52	13	8	—	52	13	8	—	52	13	8	—	52	13	8	—	52	13	8				
33 869	20 550	13 319	18 009	12 077	1 486	728	1 625	12 077	1 486	728	1 625	12 077	1 486	728	1 625	12 077	1 486	728	1 625	12 077	1 486	728				
44 840	24 532	20 308	19 930	16 604	2 885	2 582	3 332	16 604	2 885	2 582	3 332	16 604	2 885	2 582	3 332	16 604	2 885	2 582	3 332	16 604	2 885	2 582				
15 008	5 626	9 382	4 696	7 539	564	1 194	504	7 539	564	1 194	504	7 539	564	1 194	504	7 539	564	1 194	504	7 539	564	1 194				
972	877	95	742	75	94	12	77	75	94	12	77	75	94	12	77	75	94	12	77	75	94	12				
81	47	34	29	34	18	34	—	34	18	34	—	34	18	34	—	34	18	34	—	34	18	34				
12 142	3 929	8 213	3 305	6 585	356	1 041	375	6 585	356	1 041	375	6 585	356	1 041	375	6 585	356	1 041	375	6 585	356	1 041				
1 813	773	1 040	620	845	96	141	52	845	96	141	52	845	96	141	52	845	96	141	52	845	96	141				
11 911	2 505	9 406	2 072	7 783	322	1 261	153	7 783	322	1 261	153	7 783	322	1 261	153	7 783	322	1 261	153	7 783	322	1 261				
1 371	303	1 068	224	921	56	111	44	921	56	111	44	921	56	111	44	921	56	111	44	921	56	111				
10 540	2 202	8 338	1 848	6 862	266	1 150	108	6 862	266	1 150	108	6 862	266	1 150	108	6 862	266	1 150	108	6 862	266	1 150				
36 133	31 692	4 441	25 725	4 000	4 939	336	1 847	4 000	4 939	336	1 847	4 000	4 939	336	1 847	4 000	4 939	336	1 847	4 000	4 939					
25 731	22 915	2 816	18 846	2 561	3 351	185	1 312	2 561	3 351	185	1 312	2 561	3 351	185	1 312	2 561	3 351	185	1 312	2 561	3 351					
25 695	22 879	2 816	18 810	2 561	3 351	185	1 312	2 561	3 351	185	1 312	2 561	3 351	185	1 312	2 561	3 351	185	1 312	2 561	3 351					
20 647	18 601	1 846	15 428	1 693	2 763	114	1 050	1 693	2 763	114	1 050	1 693	2 763	114	1 050	1 693	2 763	114	1 050	1 693	2 763					
2 484	1 978	506	1 772	452	172	48	107	452	172	48	107	452	172	48	107	452	172	48	107	452	172	48				
2 564	2 100	464	1 610	416	416	23	135	416	416	23	135	416	416	23	135	416	416	23	135	416	416	23				
10 427	8 777	1 625	6 879	1 439	1 608	151	535	1 439	1 608	151	535	1 439	1 608	151	535	1 439	1 608	151	535	1 439	1 608	151				
175	168	7	162	7	5	—	22	162	7	5	—	22	162	7	5	—	22	162	7	5	—	22				
181	176	5	147	5	28	—	15	147	5	28	—	15	147	5	28	—	15	147	5	28	—	15				
30	30	30	30	30	—	—	—	30	—	—	—	—	30	—	—	—	30	—	—	—	—	—				
10 016	8 403	1 613	6 540	1 427	1 580	151	498	1 427	1 580	151	498	1 427	1 580	151	498	1 427	1 580	151	498	1 427	1 580	151				
42 235	24 844	17 391	20 152	14 440	3 338	2 079	2 269	14 440	3 338	2 079	2 269	14 440	3 338	2 079	2 269	14 440	3 338	2 079	2 269	14 440	3 338	2 079				
56	50	6	50	6	—	—	—	6	—	—	—	—	6	—	—	—	6	—	—	—	—	—				
6 114	4 756	1 358	4 088	1 139	394	166	424	1 139	394	166	424	1 139	394	166	424	1 139	394	166	424	1 139	394	166				
300	292	8	250	8	22	—	39	250	8	22	—	39	250	8	22	—	39	250	8	22	—	39				
7 933	5 826	2 107	5 000	1 820	671	243	283	1 820	671	243	283	1 820	671	243	283	1 820	671	243	283	1 820	671	243				
704	628	76	406	46	169	30	83	406	46	169	30	83	406	46	169	30	83	406	46	169	30	83				
12 543	4 900	7 643	6 115	623	1 057	30	899	6 115	623	1 057	30	899	6 115	623	1 057	30	899	6 115	623	1 057	30	899				
14 585	8 392	6 193	6 481	5 306	1 459	583	801	5 306	1 459	583	801	5 306	1 459	583	801	5 306	1 459	583	801	5 306	1 459	583				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A]

United States												
Chemicals and allied products												
Occupation	Total		Race				Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Both sexes		White		Black		Male		Male		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	1 272 484	921 188	802 142	295 472	87 214	41 840	42 653	20 347	38.2	34.8	26.4	11.5
Managerial and professional specialty occupations	266 324	223 453	209 016	37 893	6 673	2 933	4 294	1 326	40.9	33.9	69.9	45.4
Executive, administrative, and managerial occupations	151 181	126 513	120 579	22 385	3 557	1 648	2 580	896	42.6	35.1	63.3	31.4
Officials and administrators, public administration	10	5	5	5	—	—	—	—	60.0	30.0	100.0	—
Financial managers	6 528	5 555	5 328	888	117	73	81	42	39.9	35.1	75.1	—
Managers, marketing, advertising, and public relations	19 544	17 628	17 151	1 824	272	73	296	63	42.3	34.3	70.6	39.9
Administrators, education and related fields	116	92	88	24	4	—	5	—	37.9	30.0	69.6	29.2
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	6 388	5 221	4 913	1 065	236	102	89	37	43.2	35.7	73.4	31.7
Managers and administrators, n.e.c.	82 349	73 230	70 074	8 543	1 695	392	1 584	306	43.8	38.5	59.9	29.3
Salaries	80 760	71 899	68 816	8 308	1 646	387	1 539	260	43.8	38.5	60.3	29.8
Self-employed	1 589	1 331	1 258	235	49	5	45	46	45.1	45.1	83.7	13.2
Management related occupations	36 246	24 782	23 020	10 036	1 233	1 008	525	448	38.8	33.3	63.2	31.0
Accountants and auditors	17 998	12 260	11 281	4 906	574	526	339	247	35.4	31.6	99.3	39.2
Personnel, training, and labor relations specialists	6 742	4 636	4 282	1 857	319	171	94	110	42.2	34.9	95.9	47.3
Buyers and purchasing agents	6 493	4 349	4 193	1 166	129	116	59	32	42.0	35.8	95.0	47.3
Inspectors and compliance officers	1 501	992	876	377	111	108	7	38	41.0	41.5	85.0	7.3
Other management related occupations	3 512	2 545	2 408	886	100	61	26	23	40.9	34.0	96.7	39.7
Professional specialty occupations	115 143	96 940	88 437	15 508	3 116	1 285	1 714	480	38.4	32.4	78.5	64.5
Engineers, architects, and surveyors	51 479	48 850	45 294	2 340	1 315	178	834	38	37.9	27.9	78.2	65.2
Architects	185	—	172	—	—	—	8	—	42.3	—	78.2	—
Engineers	51 294	48 652	45 116	2 338	1 308	178	826	38	37.9	27.9	78.2	65.2
Civil engineers	1 332	1 250	1 175	65	33	17	55	11	38.0	28.6	96.3	78.1
Electrical and electronic engineers	2 034	1 968	1 837	42	82	13	107	17	38.7	27.9	98.9	78.1
Industrial engineers	7 148	6 275	5 844	810	312	49	183	14	39.6	32.9	99.1	59.2
Mechanical engineers	3 291	3 216	3 047	56	79	19	60	23.9	39.1	23.9	75.5	70.7
Other engineers	37 474	35 943	33 213	1 365	802	80	597	13	37.4	25	98.2	78.8
Surveyors and mapping scientists	15	13	6	2	7	—	—	—	44.3	30.0	53.8	—
Computer systems analysts and scientists	4 124	3 224	2 999	821	98	52	76	17	36.0	32.0	65.7	61.2
Operations and systems researchers and analysts	2 094	1 681	1 531	351	63	44	7	—	38.5	31.9	61.9	55.0
Mathematical scientists	926	515	463	110	24	24	14	—	38.2	32.3	91.1	53.0
Natural scientists	38 483	30 940	27 227	5 803	1 233	649	515	216	38.2	32.0	98.5	78.2
Chemists, except biochemists	31 718	26 287	24 966	3 971	1 144	509	476	171	38.4	31.9	82.3	76.3
Other natural scientists	6 765	4 653	4 261	1 832	89	140	39	35	37.0	32.4	99.6	82.2
Health diagnosing occupations	2 422	1 162	1 092	122	28	6	41	19	47.4	39.6	94.1	79.3
Health assessment and treating occupations	2 422	1 162	1 092	122	28	6	41	19	37.7	46.4	72.7	28.5
Registered nurses	1 418	883	690	1 444	54	84	42	8	35.4	47.9	52.5	20.9
Other health assessment and treating occupations	1 004	784	591	1 89	54	20	42	11	38.1	35.8	75.3	74.1
Teachers, except postsecondary	610	445	400	133	45	32	30	—	37.8	34.6	82.4	28.5
Social scientists and urban planners	3 945	2 896	2 763	935	56	78	36	21	39.4	31.2	96.7	97.7
Social and recreation workers	87	73	65	14	—	—	8	—	46.8	35.0	53.4	—
Lawyers and judges	2 246	1 959	1 895	260	47	27	37	8	41.7	32.5	98.7	90.9
Writers, artists, entertainers, and athletes	6 541	4 077	3 814	2 315	153	79	69	102	40.9	32.7	51.9	49.8
Other professional specialty occupations	884	235	204	617	14	32	8	—	44.9	41.8	56.2	51.5
Technical, sales, and administrative support occupations	342 974	171 342	154 384	152 358	12 078	14 563	5 730	5 584	37.7	33.9	32.5	10.3
Technicians and related support occupations	86 310	64 378	56 847	18 458	5 006	2 348	2 030	622	35.3	32.2	90.0	92.7
Health technologists and technicians	2 384	1 298	1 136	839	89	121	20	79	34.2	32.6	56.5	26.4
Licensed practical nurses	170	77	136	78	37	17	20	—	35.4	33.1	90.2	41.2
Other health technologists and technicians	2 214	1 221	1 109	761	89	84	20	79	34.2	32.5	57.4	47.4
Engineering and science technicians	70 540	53 104	46 998	14 663	4 271	2 006	1 843	488	35.2	32.5	92.0	89.0
Electrical and electronic technicians	2 544	2 360	2 174	140	150	36	85	15	35.6	30.7	92.3	88.0
Industrial and mechanical engineering technicians	765	641	583	115	48	9	4	—	35.7	37.0	102	6.0
Drafting and surveying technicians	4 386	3 988	3 672	354	205	5	131	11	34.1	29.3	86.6	75.0
Other engineering and science technicians	62 845	46 115	40 569	14 054	3 868	1 956	1 623	462	36.3	32.5	96.7	99.5
Technicians, except health, engineering, and science	13 386	9 976	8 733	2 956	646	221	167	55	35.3	32.5	88.8	21.6
Airplane pilots and navigators	198	198	198	27	—	—	—	—	39.1	31.0	94.4	48.1
Air traffic controllers and broadcast equipment operators	123	96	66	27	26	—	—	—	37.7	32.8	99.0	—
Computer programmers	4 382	3 045	2 740	1 336	206	114	65	14	32.3	30.1	50.0	46.9
Other technicians, except health, engineering, and science	8 483	6 637	5 729	1 593	414	107	102	41	39.0	31.6	50.1	49.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States													
	Chemicals and allied products													
	Race													
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.														
Sales occupations	62 115	53 023	50 630	8 214	1 662	660	1 172	312	40.1	32.7	95.7	92.2	54.5	37.9
Supervisors and proprietors, sales occupations	3 441	2 842	2 744	538	76	33	90	7	42.8	38.9	94.2	90.0	43.7	26.4
Sales representatives, finance and business services	3 363	2 772	2 674	530	76	33	90	7	43.1	39.0	94.6	90.0	43.7	26.4
Sales representatives, commodities, except retail	78	219	186	138	33	8	20	—	37.2	31.3	91.3	100.0	46.1	42.5
Sales workers, retail and personal services	56 972	49 510	47 272	6 789	1 547	505	1 018	244	39.9	31.9	95.9	93.9	55.4	42.9
Cashiers	1 243	1 143	1 005	684	6	108	53	—	38.9	42.9	88.8	76.9	28.9	2.7
Other sales occupations, retail and personal services	718	575	465	212	6	14	25	37	43.8	46.4	90.9	74.4	8.4	1.7
Sales related occupations	525	286	275	63	—	14	13	18	38.9	36.3	87.8	82.8	39.2	5.0
Administrative support occupations, including clerical	94	23	23	63	—	6	6	—	25	36.3	73.9	90.1	65.2	7.0
Supervisors, technical occupations	193 949	53 961	46 887	125 686	5 410	11 555	2 528	4 650	37.8	34.3	82.4	92.3	18.0	6.0
Supervisors, non-technical occupations	12 571	8 263	7 558	3 899	502	329	252	114	40.3	40.2	91.0	92.9	35.8	14.8
Supervisors, proprietors, sales occupations	6 357	3 034	2 655	3 012	281	174	174	—	32.4	31.8	93.9	93.0	16.3	6.9
Secretaries, stenographers, and typists	65 806	573	494	59 955	59	4 290	—	1 910	40.4	33.9	85.3	95.7	19.9	5.3
Secretaries and typists	59 310	448	413	54 461	15	3 555	—	1 728	43.5	34.0	89.5	96.3	25.2	5.6
Stenographers and typists	6 496	125	81	5 494	44	735	—	182	31.9	32.5	70.4	90.1	0.8	2.8
Bookkeepers, accounting, and auditing clerks	2 845	63	59	2 577	4	185	—	50	38.9	32.6	74.6	86.2	34.9	3.5
Other information clerks	1 147	380	340	2 187	23	86	10	29	37.9	32.9	87.1	92.4	51.3	7.4
File clerks	4 280	1 638	1 510	2 187	73	303	61	182	33.8	34.6	87.1	92.4	51.3	7.4
Other records processing occupations, except financial	7 091	1 564	1 288	4 829	224	567	72	228	41.5	34.6	78.5	90.8	8.2	8.2
Bookkeepers, accounting, and auditing clerks	17 095	2 206	1 990	13 557	135	974	101	440	39.6	36.2	92.1	93.6	33.6	6.1
Payroll and timekeeping clerks	2 422	333	312	2 600	53	178	—	73	46.6	39.7	96.1	91.6	8.1	5.6
Other financial records processing occupations	2 847	191	176	2 671	30	104	16	95	37.0	34.6	90.0	91.7	27.7	4.0
Telephone operators	3 207	1 012	912	1 012	30	104	16	95	39.7	40.4	87.5	84.7	4.7	—
Mail and message distributing occupations	3 065	1 647	1 262	1 078	89	264	79	59	30.5	29.5	81.4	79.7	6.2	2.0
Production coordinators and expeditors	15 491	3 377	4 674	2 873	586	326	202	112	40.0	34.6	86.8	86.3	19.1	7.9
Traffic, shipping, and receiving clerks	9 911	12 390	10 089	2 684	1 840	330	935	183	35.3	34.0	68.8	76.0	2.9	4.0
Stock and inventory clerks	2 489	6 332	5 583	3 206	547	317	352	108	37.9	33.5	77.6	86.4	8.7	6.0
Other material recording, scheduling, and distributing clerks	2 755	1 391	1 555	3 206	220	133	31	44	38.9	36.1	71.4	69.7	4.9	3.0
Adjusters and investigators	4 123	343	1 048	1 401	44	187	54	106	44.6	42.3	93.7	94.0	40.2	19.5
Data-entry keyers	21 782	6 158	5 569	13 774	454	1 578	132	553	38.9	31.4	85.4	92.6	21.0	3.5
Other administrative support occupations	38 490	31 438	25 551	5 140	4 958	1 626	1 647	369	43.2	41.2	60.9	59.3	2.9	2.0
Service occupations	7 865	7 176	6 294	534	778	140	142	8	48.9	35.0	66.2	81.4	4.5	2.3
Private household occupations	7 073	6 400	5 626	518	689	140	108	8	49.5	35.4	64.5	81.0	3.5	2.1
Protective service occupations	30 625	24 262	19 257	4 668	89	1 486	34	—	44.4	42.5	89.3	100.0	13.0	12.5
Guards	1 791	1 791	1 791	1 791	16	16	—	—	44.4	42.5	89.3	100.0	13.0	12.5
Other protective service occupations	27 457	22 571	17 466	4 668	73	1 470	34	—	44.4	42.5	89.3	100.0	13.0	12.5
Food preparation and service occupation	375	121	102	204	8	185	42	37	37.0	47.2	50.9	57.2	3.5	2.5
Health service occupations	27 457	22 571	17 466	4 668	73	1 470	34	—	44.4	42.5	89.3	100.0	13.0	12.5
Cleaning and building service occupations, except household	1 002	314	187	548	96	161	48	40	42.3	40.6	59.3	51.8	2.2	0.9
Personal service occupations	1 129	948	787	164	104	9	85	2	34.4	25	70.9	86.7	1.8	3.9
Farming, forestry, and fishing occupations	211 204	198 201	179 549	10 705	14 120	1 753	7 067	918	41.1	37.9	78.1	69.9	10.3	9.6
Precision production, craft, and repair occupations	56 266	54 840	49 953	1 19	3 902	266	1 878	64	39.9	33.5	74.8	68.5	2.7	3.0
Mechanics and repairers	1 986	1 967	1 900	19	40	—	60	—	46.8	43.6	87.5	100.0	7.4	—
Supervisors, mechanics and repairers	1 712	1 680	1 483	24	130	8	107	—	38.5	33.4	67.1	46.9	1.4	—
Automobile mechanics, including body	21 585	21 068	19 150	442	1 502	75	766	17	39.0	34.7	72.9	58.4	2.2	2.3
Industrial machinery repairers	780	748	673	32	63	—	18	—	38.4	30.9	88.1	100.0	4.4	—
Electronic repairs, communications and industrial equipment	829	809	769	20	35	—	16	—	44.1	31.7	80.7	55.0	2.2	—
Heating, air conditioning, and refrigeration mechanics	29 374	28 568	25 978	590	2 132	183	911	47	40.0	32.9	75.2	74.2	2.7	3.1
Other mechanics and repairers	34 782	33 894	31 281	807	1 910	60	1 178	26	40.9	42.1	74.4	76.7	3.2	3.4
Construction trades	2 264	3 286	3 048	285	33	—	—	—	46.6	63.5	82.0	100.0	16.7	0.7
Supervisors, construction occupations	3 334	3 286	3 048	285	33	—	—	—	46.6	63.5	82.0	100.0	16.7	0.7
Carpenters	11 855	11 735	10 158	85	446	15	241	—	43.0	33.3	65.3	72.9	3.1	1.1
Electricians	2 973	2 668	2 108	262	378	22	286	26	43.0	30.3	61.3	96.0	1.8	2.6
Painters, construction and maintenance	11 476	11 397	10 461	79	694	15	429	—	41.3	34.3	51.3	64.6	2.0	0.8
Plumbers, pipefitters, and steamfitters	2 880	2 809	2 563	56	171	15	125	—	40.6	32.9	65.0	78.9	2.0	9.9
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Chemicals and allied products																			
	Total				Race				Spanish origin ¹				Median age				Percent high school graduates				Percent completed 4 or more years of college				Percent self-employed					
	Both sexes		Male		Female		White		Black		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
Employed persons 16 years and over—Con.																														
Precision production, craft, and repair occupations—Con.																														
Extraction occupations.....																														
Precision production occupations.....																														
Supervisors, production occupations.....																														
Precision metalworking occupations.....																														
Tool and die makers.....																														
Machinists.....																														
Sheet metal workers.....																														
Other precision metal workers.....																														
Precision textile, apparel, and furnishings machine workers.....																														
Precision food production occupations.....																														
Precision inspectors, testers, and related workers.....																														
Plant and system operators.....																														
Other precision production occupations.....																														
Operators, fabricators, and laborers.....																														
Machine operators, assemblers, and inspectors.....																														
Machine operators and tenders, except precision.....																														
Metalworking and plastic working machine operators.....																														
Fabricating machine operators, n.e.c.....																														
Metal and plastic processing and woodworking machine operators.....																														
Printing machine operators.....																														
Textile machine operators.....																														
Textile sewing machine operators.....																														
Laundry and dry cleaning machine operators.....																														
Packaging and filling machine operators.....																														
Furnace, kiln, and oven operators, except food.....																														
Other specified machine operators.....																														
Miscellaneous and not specified machine operators.....																														
Fabricators, assemblers, and hand working occupations.....																														
Welders and others.....																														
Solders and brazers.....																														
Assemblers.....																														
Hand working occupations.....																														
Production inspectors, testers, samplers, and weighers.....																														
Graders and sorters, except agricultural.....																														
Other production inspectors, testers, samplers, and weighers.....																														
Transportation and material moving occupations.....																														
Transportation occupations.....																														
Motor vehicle occupations.....																														
Truck drivers.....																														
Driver-sales workers.....																														
Other motor vehicle operators.....																														
Rail and water transportation occupations.....																														
Material moving occupations.....																														
Supervisors, material moving equipment operators.....																														
Crane, hoist and winch operators.....																														
Excavating, grading, and dozer machine operators.....																														
Other material moving equipment operators.....																														
Handlers, equipment cleaners, helpers, and laborers.....																														
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.....																														
Helpers, craft and production.....																														
Construction laborers.....																														
Freight, stock, and material handlers.....																														
Garage and service station occupations, and equipment cleaners.....																														
Hand packers and packagers.....																														
Laborers, except construction.....																														

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Rubber and miscellaneous plastics products									
	Total					Race					Spanish origin ¹					Median age				
	Both sexes		Male		Female	White		Black			Male		Female			Male		Female		
Employed persons 16 years and over	641 815	430 562	211 253	376 340	179 218	36 493	21 043	27 364	16 412	35.5	35.3	71.8	64.0	12.3	3.3	0.6	0.2			
Managerial and professional specialty occupations	76 500	45 793	10 716	43 216	10 039	1 050	394	1 277	266	41.1	35.6	94.3	92.5	50.3	23.9	1.7	1.0			
Executive, administrative, and managerial occupations	54 838	40 740	8 078	45 203	7 837	711	305	968	206	42.1	36.5	92.8	91.8	45.9	18.4	2.0	1.2			
Office and administrative, public administration	2 452	2 106	442	2 176	426	26	19	35	10	50.0	33.5	97.0	97.5	69.8	15.6	—	—			
Financial managers	5 907	5 380	527	5 279	593	27	5	70	—	42.3	34.2	97.0	97.0	77.0	25.2	0.6	1.7			
Managers, marketing, advertising, and public relations	37	24	13	16	7	8	—	—	—	30.0	47.5	100.0	53.8	25.0	—	—	—			
Administrators, education and related fields	2 718	2 064	654	1 989	628	37	13	31	28	41.5	38.8	94.6	92.5	58.7	20.5	—	—			
Managers, medicine and health	32 501	26 269	3 240	28 349	3 025	379	99	607	81	43.9	39.2	91.3	89.6	40.1	11.3	2.9	2.7			
Managers and administrators, n.e.c.	31 532	28 389	3 143	27 514	2 976	379	99	593	81	45.4	49.0	83.6	84.8	23.9	14.1	96.8	87.9			
Self-employed	11 017	7 797	3 220	7 394	2 998	232	166	225	87	39.1	34.1	94.0	93.1	50.2	24.4	0.8	0.2			
Management related occupations	5 510	3 742	1 768	3 587	1 656	142	82	103	44	37.5	32.9	98.5	97.7	66.2	31.2	0.2	—			
Accountants and auditors	2 443	1 853	590	1 662	544	13	32	21	22	37.9	34.8	84.1	87.5	30.8	21.0	0.1	—			
Personnel, training, and labor relations specialists	2 282	1 624	658	1 563	620	13	6	21	—	32.6	37.2	93.8	93.8	36.6	10.9	—	—			
Buyers and purchasing agents	95	67	22	52	22	15	6	36	—	37.2	37.2	100.0	100.0	27.9	—	—	—			
Inspectors and compliance officers	687	511	176	470	136	6	—	10	—	47.2	34.3	96.9	92.6	51.9	22.2	10.2	2.8			
Other management related occupations	21 671	19 053	2 618	18 013	2 402	339	89	309	40	38.3	33.6	97.8	94.5	61.1	40.7	0.9	0.3			
Professional specialty occupations	14 480	13 670	810	13 001	2 772	210	12	211	24	38.4	32.3	98.2	94.6	60.8	34.9	0.8	—			
Engineers, architects, and surveyors	14 445	13 639	805	12 970	2 768	210	12	211	24	38.4	32.3	98.2	94.6	60.8	34.9	0.8	—			
Architects	238	225	13	214	13	17	—	19	—	36.2	25	100.0	100.0	69.5	100.0	—	—			
Civil engineers	4 107	3 588	519	3 393	485	102	12	74	20	37.7	34.8	97.3	95.8	53.5	17.1	0.2	—			
Electrical and electronic engineers	2 104	2 085	19	2 005	19	22	—	36	—	39.6	47.1	97.8	100.0	54.9	73.7	1.0	—			
Industrial engineers	7 338	7 089	249	6 759	245	69	—	64	4	38.5	26.4	98.7	91.2	65.5	43.9	1.2	—			
Mechanical engineers	5	5	—	5	—	—	—	—	—	40.0	—	100.0	—	—	—	—	—			
Other engineers	413	279	136	447	107	7	21	—	—	34.2	31.1	100.0	98.5	61.0	37.5	—	—			
Surveyors and mapping scientists	283	229	92	221	54	—	—	6	—	37.0	30.0	100.0	100.0	65.5	29.2	—	—			
Computer systems analysts and scientists	145	53	27	53	87	58	19	44	13	40.3	34.0	98.7	97.8	43.4	29.1	—	—			
Operations and systems researchers and analysts	2 520	2 243	277	2 037	202	58	19	44	13	39.3	30.5	98.9	100.0	79.5	83.5	0.3	—			
Natural scientists	2 344	2 107	237	1 911	180	58	19	44	13	45.2	28.5	95.6	85.0	76.5	30.0	—	—			
Other natural scientists	21	21	—	21	—	—	—	—	—	59.2	—	100.0	—	100.0	—	—	—			
Health diagnosing occupations	457	20	437	20	424	—	6	—	—	40.0	45.9	100.0	98.6	25.0	36.4	—	—			
Health assessing and treating occupations	457	20	437	20	424	—	6	—	—	40.0	45.9	100.0	98.6	25.0	36.4	—	—			
Registered nurse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other health assessment and treating occupations	179	103	76	84	56	14	6	—	—	30.9	38.3	93.2	80.3	19.4	1.3	4.9	—			
Teachers, except postsecondary	465	396	69	384	69	—	—	10	—	40.1	34.0	96.2	100.0	75.3	53.6	1.8	—			
Social scientists and urban planners	35	29	6	25	6	13	—	4	—	42.0	30.0	55.2	100.0	24.1	—	—	—			
Social and recreation workers	223	201	22	188	22	—	—	—	—	41.7	40.0	100.0	100.0	99.5	50.0	3.5	—			
Lawyers and judges	2 147	1 565	582	1 495	546	28	20	34	16	37.1	31.9	94.6	89.2	34.0	40.2	2.2	—			
Writers, artists, entertainers, and athletes	103	46	57	37	57	9	—	—	—	32.8	37.4	89.1	87.7	17.4	56.1	—	—			
Other professional specialty occupations	100 399	48 487	51 912	44 064	47 980	2 866	2 492	1 902	1 710	36.3	34.1	85.3	88.6	20.0	5.4	0.8	0.4			
Technical, sales, and administrative support occupations	15 345	12 492	2 853	11 360	2 504	700	274	289	58	34.2	32.8	90.8	85.5	17.9	15.5	0.3	0.2			
Technicians and related support occupations	181	130	51	125	36	—	15	—	—	33.2	36.9	87.7	100.0	38.5	11.8	11.5	—			
Health technologists and technicians	29	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Dental practitioners	152	130	22	125	22	—	8	—	—	—	—	—	—	—	—	—	—			
Other health technologists and technicians	11 197	9 134	2 063	8 255	1 764	554	231	254	44	34.1	33.5	91.2	83.2	14.4	10.8	0.2	—			
Engineering and science technicians	708	590	15	576	58	80	—	—	—	34.5	33.9	97.8	97.8	20.7	13.5	—	—			
Electrical and electronic technicians	310	295	15	276	15	38	8	14	9	33.7	37.5	83.1	60.0	29.5	—	1.7	—			
Industrial and mechanical technicians	2 106	1 863	223	1 768	210	88	—	74	—	32.4	27.4	87.0	87.0	18.6	30.0	0.4	—			
Drafting and surveying technicians	8 073	6 306	1 767	5 655	1 301	436	223	166	35	34.6	33.9	90.2	84.9	15.2	8.8	0.1	—			
Other engineering and science technicians	3 967	3 228	739	2 980	684	146	28	35	14	34.4	31.4	89.8	91.1	27.0	29.0	0.2	0.9			
Technicians, except health, engineering, and science	89	87	2	87	2	—	—	—	—	37.5	50.0	100.0	—	—	—	—	—			
Airplane pilots and navigators	1 471	1 086	385	1 034	351	41	—	21	14	33.3	30.5	98.4	99.5	42.1	36.6	0.5	—			
Air traffic controllers and broadcast equipment operators	2 400	2 055	345	1 859	324	105	17	14	—	34.9	32.6	84.9	82.0	18.9	21.2	0.1	—			
Computer programmers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Rubber and miscellaneous plastics products														
Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female										
13 199	11 104	2 095	10 824	1 902	143	146	39.0	33.4	94.7	85.0	41.2	12.8	2.9	4.4
1 336	1 228	108	1 161	103	34	—	40.1	34.5	90.1	59.3	28.7	34.4	5.7	5.6
1 260	1 158	102	1 091	97	34	—	39.8	35.7	90.1	56.9	29.2	4.9	—	—
76	70	6	70	6	—	—	43.3	38.1	91.4	100.0	21.4	—	100.0	100.0
129	104	25	104	20	—	—	47.5	38.1	100.0	100.0	27.9	20.0	—	—
11 268	9 598	1 670	9 393	1 573	109	5	38.8	32.7	95.6	89.5	48.3	14.0	2.6	5.2
454	170	284	204	65	—	—	35.0	38.0	75.9	69.0	22.9	8.8	1.8	—
264	46	218	38	138	—	—	32.9	37.3	43.5	65.1	13.0	2.8	—	—
190	124	66	124	66	—	—	36.6	41.7	87.9	81.8	26.6	28.8	2.4	—
12	4	8	4	2	—	—	25—	31.7	100.0	—	—	—	—	—
71 855	24 891	46 964	21 880	43 574	2 023	2 272	36.2	34.2	78.3	88.9	11.6	4.4	0.2	0.2
5 417	3 851	1 566	3 524	1 479	196	42	39.7	39.4	85.5	89.1	21.1	7.0	—	—
2 402	1 050	1 352	934	1 275	78	49	33.1	30.3	96.8	91.5	11.3	3.5	—	0.4
17 623	263	17 360	228	16 487	27	586	37.6	33.6	88.2	93.7	22.1	4.5	—	0.1
15 713	215	15 498	195	14 822	12	430	40.8	33.8	86.5	94.2	23.3	4.6	—	0.1
1 910	48	1 862	33	1 665	15	156	28.0	31.1	95.8	89.0	16.7	3.2	—	0.5
1 145	13	1 132	93	1 042	8	79	46.9	30.9	100.0	89.3	—	4.1	—	—
285	93	192	93	192	—	—	38.5	28.9	94.6	89.1	34.4	6.3	—	—
2 349	1 029	1 320	909	1 134	115	108	34.4	34.0	83.0	64.5	13.6	3.2	—	—
2 823	832	1 991	709	1 740	86	168	35.7	33.3	83.2	88.1	13.0	4.7	0.6	—
6 961	784	6 177	5 897	784	45	164	36.6	36.9	92.6	92.2	32.3	4.7	—	0.6
1 418	137	1 281	1 230	1 230	2	46	46.2	38.2	93.2	92.7	14.4	5.2	—	—
1 255	208	1 047	986	986	2	35	38.8	33.3	95.4	92.6	18.3	6.8	—	—
499	36	463	21	445	15	18	25—	41.7	72.2	89.2	19.4	0.4	—	—
822	459	363	362	332	86	5	28.0	34.0	81.9	77.1	5.7	5.5	—	—
4 708	2 882	1 826	2 623	1 671	193	120	36.4	35.1	87.0	85.5	15.7	4.3	0.8	—
8 976	6 970	2 006	5 938	1 758	641	157	33.8	35.1	66.0	65.5	2.3	1.7	—	—
4 689	3 390	1 299	2 925	1 173	307	83	34.7	35.5	70.3	82.4	7.3	3.0	0.4	—
976	595	381	482	327	101	31	31.8	35.5	75.0	64.3	3.2	1.6	—	—
975	411	564	366	543	34	21	40.3	33.8	97.1	95.7	36.0	14.2	—	0.4
1 977	123	1 854	90	1 537	24	246	31.0	29.7	86.2	90.5	10.6	1.5	—	—
6 535	1 765	4 770	1 627	4 326	63	314	37.8	36.3	79.7	86.0	14.1	5.0	—	0.3
15 682	13 563	2 119	11 498	1 684	1 652	373	43.2	42.9	52.0	51.1	2.3	0.1	0.1	0.2
2 450	2 291	159	2 087	119	174	40	52.3	37.6	60.6	81.8	4.5	—	—	—
2 327	2 168	159	1 986	119	152	40	52.7	37.6	60.0	81.8	4.8	—	—	—
123	123	—	101	—	22	—	49.1	—	70.7	—	—	—	—	—
13 232	11 272	1 960	9 411	1 565	1 478	333	41.0	43.5	50.2	48.6	1.9	0.1	0.2	0.2
256	99	157	93	127	6	19	30.7	52.6	59.6	52.9	15.2	—	—	—
97	13	84	8	65	5	13	29.6	36.3	61.5	78.6	1.6	—	—	—
12 741	11 095	1 646	9 253	1 304	1 467	301	41.2	42.6	50.0	46.2	27.7	2.7	0.2	0.1
138	65	73	57	69	—	—	33.0	47.8	64.6	58.9	—	—	—	2.7
268	221	47	154	40	51	7	32.0	32.8	45.2	57.4	—	—	—	17.0
108 631	99 007	9 624	90 457	7 880	5 513	1 196	37.4	37.3	73.1	59.2	5.5	2.9	0.5	0.9
29 049	27 707	1 342	25 547	1 131	1 587	173	35.9	35.8	66.7	55.8	2.3	2.1	0.4	0.4
611	401	10	547	10	46	—	38.6	30.0	74.9	—	10.1	—	1.7	—
1 090	1 010	80	906	70	57	10	31.9	33.1	70.4	80.0	3.0	—	0.7	—
15 500	14 918	582	13 851	518	644	64	34.8	36.8	65.9	51.9	1.6	2.2	0.1	—
183	182	1	182	1	—	—	36.8	25—	95.1	100.0	10.4	—	—	—
161	161	—	161	—	—	—	38.9	—	68.9	—	—	—	—	—
11 504	10 835	669	9 696	542	840	99	37.8	35.5	66.6	57.1	2.7	2.2	0.6	0.7
9 440	8 945	495	8 203	367	486	110	39.4	34.7	76.2	60.2	2.6	2.6	0.4	2.8
410	410	—	380	—	24	—	46.1	—	86.3	—	11.2	—	1.2	—
832	802	30	745	21	53	9	40.6	47.5	58.5	60.0	3.4	—	0.6	—
4 818	4 760	58	4 403	58	242	9	38.4	33.2	83.1	93.1	2.4	22.4	0.2	—
641	397	244	4 293	179	90	18	32.5	35.5	63.2	52.0	1.3	—	0.2	—
2 143	2 088	55	1 979	41	75	14	41.2	43.1	71.6	60.0	1.7	—	0.5	—
596	488	108	403	68	77	40	36.3	31.3	60.2	61.1	1.4	—	1.6	13.0

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 (Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Rubber and miscellaneous plastics products									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Percent self-employed
Precision production, craft, and repair occupations—Con.										
Extrusive occupations	73	59	14	40	19	3 421	913	31.1	51.3	59.3
Precision production occupations	70 045	62 296	7 773	56 871	3 421	6 368	37.7	37.8	37.7	14.3
Precision production occupations	47 140	42 042	5 098	38 343	2 426	4 088	39.0	38.2	39.0	59.9
Precision production occupations	18 103	16 557	1 546	15 310	1 237	1 177	34.3	34.3	34.3	75.4
Tool and die makers	4 219	4 142	77	4 005	65	118	29.2	29.2	29.2	72.2
Machinists	12 555	11 336	1 219	10 280	629	685	34.7	34.7	34.7	78.3
Sheet metal workers	309	294	15	288	6	21	36.1	36.1	36.1	70.1
Other precision metal workers	1 020	785	235	737	62	20	37.4	37.4	37.4	64.5
Precision textile, apparel, and furnishings machine workers	818	735	83	735	37	83	37.5	37.5	37.5	57.0
Precision food production occupations	149	110	39	133	54	13	37.7	37.7	37.7	64.5
Precision inspectors, testers, and related workers	985	742	243	634	5	117	45.2	45.2	45.2	56.4
Plant and system operators	1 762	1 731	31	1 695	72	40	32.9	32.9	32.9	51.4
Other precision production occupations	1 112	871	241	1 025	87	44	43.9	43.9	43.9	77.8
Operators, fabricators, and laborers	340 326	203 491	136 835	166 951	25 361	13 499	32.5	32.5	32.5	69.1
Machine operators, assemblers, and inspectors	270 623	155 730	114 893	128 258	18 536	10 051	32.5	32.5	32.5	53.0
Machine operators and tenders, except precision	206 326	127 715	78 611	105 335	15 283	7 783	32.5	32.5	32.5	63.3
Metalworking and plastic working machine operators	8 670	5 401	3 069	4 868	449	164	32.3	32.3	32.3	58.1
Fabricating machine operators, n.e.c.	319	215	104	191	7	6	33.4	33.4	33.4	57.7
Metal and plastic processing and woodworking machine operators	34 474	17 097	17 377	14 419	782	812	30.8	30.8	30.8	59.0
Printing machine operators	2 441	1 459	982	1 345	84	66	32.1	32.1	32.1	71.1
Textile machine operators	1 878	1 316	562	1 116	126	84	32.3	32.3	32.3	58.9
Textile sewing machine operators	4 182	3 577	3 585	3 398	95	499	33.5	33.5	33.5	54.4
Laundry and dry cleaning machine operators	17	16	1	1	—	—	—	—	—	—
Packaging and filling machine operators	1 815	671	1 144	592	44	79	30.0	30.0	30.0	46.1
Furnace, kiln, and oven operators, except food	1 458	1 313	145	1 225	50	63	30.9	30.9	30.9	62.1
Other specified machine operators	32 416	22 692	9 724	19 253	2 414	701	37.2	37.2	37.2	64.1
Miscellaneous and not specified machine operators	118 676	76 773	41 903	61 927	10 232	5 325	32.5	32.5	32.5	63.0
Fabricators, assemblers, and hand working occupations	36 828	16 887	19 941	13 535	2 023	2 425	31.1	31.1	31.1	60.6
Welders and cutters	3 439	3 040	399	2 636	191	63	33.7	33.7	33.7	59.5
Solders and brazers	186	128	58	130	28	8	33.9	33.9	33.9	63.4
Assemblers	31 490	12 885	18 605	10 156	1 660	2 317	30.3	30.3	30.3	53.6
Hand working occupations	27 413	11 728	15 685	13 721	144	67	34.9	34.9	34.9	60.2
Production inspectors, testers, samplers, and weighers	1 589	1 033	556	938	1 230	843	36.0	36.0	36.0	71.1
Graders and sorters, except agricultural	—	—	—	—	166	76	34.9	34.9	34.9	59.0
Other production inspectors, testers, samplers, and weighers	—	—	—	—	—	—	—	—	—	—
Transportation and material moving occupations	25 900	10 095	15 805	8 547	1 064	607	36.1	36.1	36.1	72.6
Transportation occupations	23 250	20 593	2 657	17 005	2 744	1 295	33.8	33.8	33.8	58.2
Motor vehicle operators	8 150	7 903	247	6 405	1 004	446	37.9	37.9	37.9	60.9
Truck drivers	8 091	7 846	245	6 567	990	440	38.0	38.0	38.0	62.3
Tractor-trailer unit operators	7 432	7 236	196	6 090	896	377	37.9	37.9	37.9	55.1
Driver-sales workers	166	138	28	111	27	—	36.0	36.0	36.0	64.3
Other motor vehicle operators	493	472	21	366	67	63	42.0	42.0	42.0	68.8
Rail and water transportation occupations	59	57	2	38	14	6	25.0	25.0	25.0	43.6
Material moving equipment operators	15 100	12 690	2 410	10 400	1 740	849	31.9	31.9	31.9	60.2
Supervisors, material moving equipment operators	193	176	17	169	—	—	36.6	36.6	36.6	60.7
Crane, hoist and winch operators	292	265	27	215	43	36	37.1	37.1	37.1	88.2
Excavating, grading, and dozer machine operators	58	42	16	29	13	8	26.7	26.7	26.7	46.8
Other material moving equipment operators	14 557	12 207	2 350	9 987	1 684	798	31.8	31.8	31.8	52.4
Handers, equipment cleaners, helpers, and laborers	46 453	27 168	19 285	21 688	4 081	2 278	31.4	31.4	31.4	60.1
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	100	92	8	71	21	7	36.6	36.6	36.6	58.2
Helpers, craft and production	2 517	2 065	452	1 565	375	223	31.7	31.7	31.7	71.7
Construction laborers	238	206	32	157	30	24	34.5	34.5	34.5	49.0
Freight, stock, and material handlers	7 670	6 401	1 269	5 196	1 040	267	30.2	30.2	30.2	68.8
Garage and service station attendants, and equipment deniers	2 137	1 878	259	1 474	390	40	36.0	36.0	36.0	62.7
Hand packers and packagers	16 480	3 610	12 870	2 797	492	1 662	29.3	29.3	29.3	51.0
Laborers, except construction	17 311	12 916	4 395	10 428	1 733	1 160	31.9	31.9	31.9	52.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Employed persons 16 years and over												
Occupation	Other nondurable goods											
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female								
529 962	322 230	207 732	274 765	176 174	33 539	21 742	24 193	18 338	70.6	58.7	17.2	4.6
68 067	56 937	11 130	53 698	9 959	1 484	742	1 794	485	94.4	91.7	60.2	38.1
44 949	37 332	7 617	35 360	6 761	1 194	564	1 264	331	92.8	93.4	52.4	31.6
2 070	1 843	227	1 742	202	56	16	91	15	97.1	91.2	69.8	32.2
3 369	2 952	357	2 824	336	91	15	69	15	95.9	93.8	49.5	43.4
12	6	6	6	6	—	—	—	—	100.0	100.0	100.0	—
2 080	1 723	357	1 614	351	73	—	79	32	95.1	96.1	60.7	28.3
23 083	20 573	2 510	19 647	2 339	540	100	672	125	90.6	89.4	47.5	21.0
22 349	20 007	2 342	19 107	2 180	536	100	619	125	90.8	89.5	47.9	21.5
734	566	168	540	139	4	—	53	—	83.0	88.1	32.7	13.1
14 395	10 235	4 160	9 527	3 526	434	433	353	159	95.1	95.8	58.4	37.3
8 147	5 550	2 597	5 107	2 164	241	279	174	95	99.0	96.6	73.5	44.7
2 483	1 742	741	1 568	649	139	75	69	41	88.5	92.8	40.5	25.5
2 350	1 840	510	1 802	465	32	21	45	5	91.7	95.9	36.1	21.6
303	282	21	262	21	13	—	13	—	85.5	71.4	22.3	—
1 112	821	291	788	227	9	58	52	18	94.0	97.3	56.9	30.9
23 118	19 605	3 513	18 338	3 198	490	178	530	154	97.5	88.0	75.2	52.3
11 877	11 304	573	10 674	516	221	32	283	22	98.5	95.4	78.6	76.4
29	29	—	29	—	—	—	—	—	100.0	—	100.0	—
11 841	11 270	571	10 638	516	221	32	283	22	98.5	95.4	78.6	76.4
543	517	26	503	19	—	—	—	—	98.8	100.0	73.3	80.8
654	646	8	646	8	52	8	22	—	98.6	100.0	76.2	100.0
1 397	1 274	123	1 236	108	13	—	14	—	96.4	84.6	46.9	17.9
1 415	1 388	27	1 338	27	35	—	26	—	96.3	100.0	72.3	70.4
7 832	7 445	387	6 991	362	121	17	133	8	99.3	98.2	85.7	94.6
7	7	—	7	—	—	—	—	—	100.0	—	—	—
1 611	1 321	290	1 179	231	50	33	27	—	100.0	100.0	70.3	70.3
700	550	150	512	140	17	10	14	—	98.9	97.3	29.9	52.7
122	79	43	72	43	7	—	—	—	100.0	100.0	69.1	53.5
3 516	2 842	674	2 604	596	92	45	40.5	36.1	98.5	83.1	83.1	57.3
2 767	2 183	584	1 953	526	84	33	29	8	98.7	70.2	82.1	55.5
749	659	90	651	70	8	12	41.7	26.7	97.9	92.2	86.6	68.9
61	61	—	61	—	—	—	—	—	100.0	—	100.0	—
359	7	352	7	342	—	—	—	—	100.0	97.7	71.4	14.2
352	7	352	7	342	—	—	—	—	100.0	97.7	71.4	14.2
7	7	—	7	—	—	—	—	—	100.0	—	—	—
313	123	190	118	183	5	7	—	—	90.2	51.6	23.6	14.2
802	621	181	601	160	12	13	6	—	99.2	84.7	87.1	69.6
34	8	26	—	—	8	—	—	—	62.5	26.9	—	—
949	846	103	813	93	22	5	56	4	98.2	100.0	97.5	100.0
2 575	1 803	772	1 659	724	56	16	115	64	87.4	91.5	37.9	42.4
199	38	161	38	151	—	—	—	18	78.9	88.2	15.8	48.4
94 248	42 872	51 376	38 110	44 789	3 222	4 666	2 118	2 687	86.2	88.1	24.6	7.6
14 884	12 175	2 709	10 984	2 997	746	486	464	59	94.1	91.1	25.6	94.1
179	121	58	121	45	—	—	—	—	80.2	100.0	46.3	32.8
14	14	—	—	—	—	—	—	—	100.0	—	—	—
165	121	44	121	36	—	—	—	—	80.2	100.0	46.3	43.2
11 150	9 328	1 822	8 443	1 430	599	311	377	53	93.6	89.1	19.4	19.6
1 088	987	60	987	39	38	7	—	—	95.9	46.7	15.5	—
261	255	6	241	6	5	—	26	—	87.8	50.0	20.0	—
1 641	1 382	259	1 157	252	98	—	37.7	—	94.6	100.0	16.4	15.1
8 160	6 663	1 497	6 058	1 133	388	304	239	53	93.3	89.1	20.6	21.3
3 555	2 726	829	2 490	622	217	162	87	6	96.2	94.8	45.7	42.5
208	208	—	208	—	—	—	—	—	94.7	94.7	31.7	—
27	20	7	1 056	7	59	—	—	—	100.0	100.0	61.1	—
1 643	1 166	477	1 056	376	78	—	43	—	99.1	98.3	54.9	—
1 677	1 332	345	1 136	237	138	84	44	6	93.8	89.9	35.1	26.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see Appendix A.]

	United States										Other nonwhite groups									
	Total					Race					Spanish origin ^a					Median age				
	Both sexes		Male		Female	White		Black			Male		Female			Male		Female		
Technical, sales, and administrative support occupations—Con.																				
Sales representatives, except retail	13 297	10 461	2 836	2 447	9 886	2 447	385	298	300	157	385	298	268	300	157	41.4	33.5	33.5	72.6	36.2
Supervisors and proprietors, sales occupations	1 040	814	226	171	769	171	14	20	—	—	—	—	20	—	—	41.6	35.2	35.2	72.6	36.2
Supervisors and proprietors, sales occupations	938	735	203	171	769	171	14	20	—	—	—	—	20	—	—	41.6	35.2	35.2	72.6	36.2
Self-employed	102	79	23	23	74	23	4	—	—	—	—	—	—	—	—	40.6	34.6	34.6	40.6	41.4
Sales representatives, finance and business services	11 178	9 326	2 333	2 017	8 141	2 017	357	201	274	136	357	201	201	274	136	41.3	34.3	34.3	71.9	35.6
Sales representatives, commodities, except retail	11 619	9 326	2 333	2 017	8 141	2 017	357	201	274	136	357	201	201	274	136	41.3	34.3	34.3	71.9	35.6
Sales workers, retail and personal services	318	187	229	165	78	165	4	17	26	21	4	17	17	26	21	34.3	32.8	32.8	64.1	29.9
Other occupations, retail and personal services	123	68	55	38	19	38	6	—	—	—	—	—	—	—	—	37.9	28.1	28.1	64.1	29.9
Sales related occupations	19	19	—	—	—	—	—	—	—	—	—	—	—	—	—	47.5	—	—	78.2	47.5
Administrative support occupations, including clerical	66 067	20 236	45 831	40 245	17 240	40 245	2 091	3 892	1 354	2 471	2 091	3 892	1 354	2 471	2 091	37.9	33.7	33.7	78.9	37.9
Supervisors, administrative support occupations	4 941	3 432	1 509	1 319	3 123	1 319	176	109	156	101	176	109	156	101	176	43.3	33.7	33.7	88.9	43.3
Computer equipment operators	2 874	1 456	1 418	1 201	1 181	1 201	176	109	88	67	176	109	88	67	176	43.3	33.7	33.7	88.9	43.3
Secretaries, stenographers, and typists	16 192	163	16 029	145	145	145	9	1 041	—	—	9	1 041	—	—	9	41.1	32.6	32.6	94.1	41.1
Secretaries and typists	14 192	143	14 049	125	125	125	9	260	—	—	9	260	—	—	9	40.6	32.6	32.6	94.1	40.6
Registries and typists	2 917	19	898	176	20	176	—	103	9	161	103	9	103	161	103	50.0	30.8	30.8	85.0	50.0
Other information clerks	516	90	426	361	90	361	—	53	—	32	53	—	53	32	53	36.3	31.3	31.3	100.0	36.3
File clerks	1 383	350	1 033	822	262	822	65	148	21	56	65	148	21	56	65	43.7	33.6	33.6	85.2	43.7
Other records processing occupations, except financial	2 109	513	1 596	1 393	462	1 393	86	146	58	96	86	146	58	96	86	42.1	35.5	35.5	85.4	42.1
Bookkeepers, accounting, and auditing clerks	7 303	1 407	5 896	5 217	1 251	5 217	106	398	68	304	106	398	68	304	106	42.2	36.2	36.2	94.2	42.2
Payroll and timekeeping clerks	1 911	250	1 661	1 399	261	1 399	47	84	31	61	47	84	31	61	47	39.5	35.0	35.0	86.4	39.5
Other financial records processing occupations	1 509	270	1 239	1 059	246	1 059	9	59	25	10	9	59	25	10	9	37.3	35.2	35.2	87.8	37.3
Telephone operators	580	68	512	453	68	453	7	59	35	16	7	59	35	16	7	38.4	46.7	46.7	50.0	38.4
Mail and message distributing occupations	985	443	542	417	286	417	130	85	28	31	130	85	28	31	130	38.4	46.7	46.7	50.0	38.4
Production coordinators and expeditors	2 574	1 338	1 236	1 245	1 119	1 245	75	85	36	67	75	85	36	67	75	38.4	46.7	46.7	50.0	38.4
Traffic, shipping, and receiving clerks	5 361	4 265	1 096	937	3 491	937	539	106	505	142	539	106	505	142	539	33.2	33.2	33.2	65.9	33.2
Stock and inventory clerks	3 225	2 165	1 060	916	837	916	272	97	115	106	272	97	115	106	272	36.1	33.8	33.8	84.4	36.1
Order material recording, scheduling, and distributing clerks	1 267	848	419	348	84	348	84	45	43	20	84	45	43	20	84	41.8	35.4	35.4	89.4	41.8
Advisory and investigators	904	357	547	436	343	436	14	69	3	42	14	69	3	42	14	38.0	32.6	32.6	89.4	38.0
Drugs and health occupations	2 504	257	2 247	2 047	190	2 047	14	383	—	153	14	383	—	153	14	40.1	31.2	31.2	89.9	40.1
Other administrative support occupations	9 212	2 647	6 565	5 704	2 297	5 704	248	645	161	333	248	645	161	333	248	41.1	35.7	35.7	85.2	41.1
Service occupations	12 831	10 648	2 183	1 433	8 392	1 433	1 918	664	721	162	1 918	664	721	162	1 918	44.5	42.4	42.4	51.7	44.5
Private household occupations	3 113	2 919	194	124	2 425	124	446	59	75	14	446	59	75	14	446	50.3	37.9	37.9	55.1	50.3
Other service occupations	2 814	2 630	184	114	2 178	114	411	59	56	14	411	59	56	14	411	50.8	38.3	38.3	55.1	50.8
Food preparation and service occupations	9 718	7 729	1 989	1 309	5 957	1 309	1 472	605	646	148	1 472	605	646	148	1 472	41.3	43.1	43.1	50.3	41.3
Food preparation and service occupations	7 118	283	435	324	203	324	69	99	35	11	69	99	35	11	69	41.3	43.1	43.1	50.3	41.3
Health service occupations	1 448	38	110	74	38	74	—	36	—	—	—	36	—	—	—	31.3	41.3	41.3	56.2	31.3
Cleaning and building service occupations, except household	8 511	7 222	1 289	778	5 990	778	1 373	417	601	113	1 373	417	601	113	1 373	41.6	43.5	43.5	50.0	41.6
Personal service occupations	342	136	186	133	126	133	30	53	10	24	30	53	10	24	30	40.4	30.7	30.7	57.1	40.4
Farming, forestry, and fishing occupations	433	391	42	29	271	29	110	13	40	—	110	13	40	—	110	36.8	32.0	32.0	34.5	36.8
Precision production, craft, and repair occupations	101 112	86 785	14 327	12 430	77 487	12 430	6 039	1 087	6 135	1 573	6 039	1 087	6 135	1 573	6 039	41.7	39.3	39.3	71.2	41.7
Mechanics and repairers	18 872	17 886	986	820	16 115	820	1 267	130	1 013	78	1 267	130	78	1 013	78	40.6	39.5	39.5	54.5	40.6
Supervisors, mechanics and repairers	775	757	16	16	759	16	—	—	30	10	—	—	—	30	10	47.9	50.0	50.0	79.1	47.9
Automobile mechanics, including body	799	778	21	19	778	19	37	2	55	—	37	2	55	—	37	39.2	37.3	37.3	66.7	39.2
Industrial machinery repairers	7 689	7 517	172	165	6 840	165	507	7	366	2	507	7	366	2	507	40.3	33.4	33.4	59.7	40.3
Electronic machinery, communications and industrial equipment	140	219	—	—	127	—	13	—	6	—	13	—	—	6	—	34.3	—	—	95.0	34.3
Heating, air conditioning, and refrigeration mechanics	219	210	—	—	192	—	9	—	12	—	9	—	—	12	—	43.5	—	—	57.5	43.5
Other mechanics and repairers	9 252	8 472	780	620	770	620	701	121	544	66	701	121	544	66	701	40.3	40.5	40.5	52.7	40.3
Construction trades	13 374	13 058	316	236	11 697	236	974	44	839	47	974	44	839	47	974	39.6	32.9	32.9	75.5	39.6
Supervisors, construction occupations	886	863	23	23	863	23	15	—	38	—	15	—	—	38	—	40.7	36.2	36.2	82.6	40.7
Carpenters	1 642	1 620	22	22	1 409	22	141	—	128	6	141	—	128	6	141	40.7	35.8	35.8	66.3	40.7
Electricians	3 512	3 444	68	68	3 444	68	174	19	175	—	174	19	175	—	174	38.4	35.0	35.0	81.7	38.4
Painters, construction and maintenance	382	335	47	39	305	39	22	1	46	—	22	1	46	—	22	41.3	33.1	33.1	45.4	41.3
Plumbers, pipefitters, and steamfitters	5 515	5 426	79	66	4 783	66	485	17	312	12	485	17	312	12	485	39.3	31.3	31.3	77.4	39.3
Other construction trades	1 437	1 360	77	46	1 183	46	137	—	120	7	137	—	120	7	137	37.0	33.2	33.2	65.6	37.0

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States																				
Race										Other nondurable goods										
Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed						
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female				
Employed persons 16 years and over—Con.																				
Precision production, craft, and repair occupations—Con.																				
Extraction occupations																				
917	868	49	762	11 334	40	92	904	9	60	34.3	32.1	76.6	87.8	7.4	9.9	3.3	1.6	0.6	0.3	
67 949	54 976	12 973	48 913	4 979	27 038	4 295	3 706	904	4 223	42.6	39.5	72.2	51.5	13.8	18.8	6.1	0.4	0.1	0.1	
39 326	29 347	4 979	27 038	4 295	27 038	4 295	3 706	904	4 223	42.6	39.5	72.2	51.5	13.8	18.8	6.1	0.4	0.1	0.1	
3 018	2 474	544	6 454	67	719	6	547	65	350	35.1	35.1	100.0	100.0	7.2	7.2	3.0	0.2	0.2	0.2	
5 787	5 360	427	4 364	13	350	26	346	2	106	40.4	40.4	68.7	48.5	2.6	2.6	3.0	0.2	0.2	0.2	
3 363	3 350	13	324	13	350	26	346	2	106	40.4	40.4	68.7	48.5	2.6	2.6	3.0	0.2	0.2	0.2	
1 540	1 471	69	1 288	71	140	14	39.4	39.4	41.3	38.9	38.2	70.6	53.8	1.7	1.7	7.9	0.4	0.4	0.5	
12 081	5 224	6 857	4 266	6 094	5	5	5	5	5	36.4	36.4	65.3	44.9	0.5	0.5	0.6	3.1	0.4	0.5	
71	66	5	60	5	14	14	14	14	14	36.4	36.4	71.2	40.0	4.5	4.5	8.7	—	—	—	
270	178	92	164	65	14	14	14	14	14	36.4	36.4	87.1	58.7	8.8	8.8	11.3	0.4	0.4	0.5	
12 678	12 252	426	10 567	371	1 059	61	1 059	61	1 059	37.8	37.8	83.2	89.0	9.2	9.2	8.6	0.4	0.4	0.5	
505	435	70	364	59	364	59	364	59	364	40.1	40.1	67.1	44.3	6.7	6.7	11.3	0.4	0.4	0.5	
Operators, fabricators, and laborers																				
253 271	124 597	128 674	96 817	107 534	20 566	20 566	14 570	13 385	13 385	34.4	34.4	55.5	45.1	2.9	2.9	0.7	1.0	0.3	0.3	
197 362	84 675	112 687	66 820	95 280	12 677	12 677	11 704	9 804	9 804	34.7	34.7	55.2	45.1	3.1	3.1	0.7	1.3	0.4	0.4	
160 453	68 156	92 297	53 534	78 592	10 529	10 529	9 148	7 892	7 892	34.6	34.6	54.2	45.0	3.0	3.0	0.7	1.1	0.4	0.4	
1 982	1 273	709	1 062	220	121	121	74	108	108	34.2	34.2	50.1	52.0	2.4	2.4	0.7	0.5	—	—	
346	112	234	97	220	9	9	9	22	23	34.1	34.1	38.4	45.3	—	—	—	—	—	—	
Metal and plastic processing and woodworking machine operators																				
2 980	1 874	1 106	1 439	939	293	293	145	231	231	31.6	31.6	48.2	39.3	1.3	1.3	—	0.4	0.4	0.3	
450	262	188	220	171	42	42	12	175	175	36.5	36.5	73.3	66.0	—	—	—	2.3	2.3	2.9	
2 978	2 116	862	1 710	677	310	310	133	480	480	37.6	37.6	46.6	34.5	2.6	2.6	0.6	4.5	4.5	4.5	
15 214	13 756	1 458	991	10 919	203	203	139	782	782	37.6	37.6	38.0	44.8	1.9	1.9	0.6	1.3	1.3	0.7	
Laundry and dry cleaning machine operators																				
70	37	33	37	17	—	—	16	6	6	25	25	21.6	21.2	—	—	—	—	—	6.1	
2 765	1 261	1 504	825	1 050	425	425	441	39	39	36.1	36.1	55.1	47.4	3.3	3.3	0.4	—	—	0.6	
2 277	1 158	1 119	1 782	1 04	277	277	15	126	126	39.9	39.9	69.7	76.5	6.2	6.2	0.6	1.2	1.2	0.3	
84 239	29 196	55 043	24 969	49 752	2 456	2 456	3 334	3 571	3 571	33.8	33.8	50.5	45.7	2.7	2.7	0.6	0.8	0.8	0.3	
47 152	28 409	18 743	20 402	14 211	6 393	6 393	3 334	3 189	3 189	35.5	35.5	58.6	43.2	3.2	3.2	1.3	0.8	0.8	0.3	
Miscellaneous and not specified machine operators																				
22 015	10 797	11 218	8 696	8 986	1 338	1 338	1 289	1 473	1 473	33.8	33.8	55.3	46.6	2.0	2.0	0.8	3.0	3.0	0.5	
4 486	4 346	140	3 770	121	383	383	19	313	313	36.6	36.6	67.9	66.4	2.1	2.1	—	4.0	4.0	—	
73	26	42	12	42	14	14	5	6	6	55.0	55.0	26.9	48.9	—	—	—	2.3	2.3	0.5	
15 131	5 455	9 676	4 131	7 672	839	839	126	904	904	35.0	35.0	68.8	43.7	6.4	6.4	0.5	0.4	0.4	—	
2 325	970	1 355	783	1 02	102	102	139	250	250	37.3	37.3	68.8	43.7	6.4	6.4	0.5	0.4	0.4	—	
14 894	5 722	9 172	4 590	7 642	810	810	1 267	439	439	39.0	39.0	52.4	31.0	3.1	3.1	2.4	—	—	—	
1 665	829	836	552	607	199	199	219	74	74	42.7	42.7	52.4	31.0	3.1	3.1	2.4	—	—	—	
Graders and sorters, except agricultural																				
Other production inspectors, testers, samplers, and weighers																				
13 229	4 893	8 336	4 038	7 035	611	611	1 048	365	365	37.1	37.1	71.6	44.9	6.9	6.9	0.3	0.5	0.5	—	
Transportation and material moving occupations																				
19 098	17 343	1 755	13 282	1 455	3 395	3 395	207	1 195	1 195	37.7	37.7	55.8	49.4	2.8	2.8	1.8	0.8	0.8	0.2	
9 623	9 370	343	7 458	222	1 402	1 402	31	655	655	39.9	39.9	56.1	67.6	2.7	2.7	3.6	1.3	1.3	1.6	
9 053	8 807	233	6 976	215	1 540	1 540	31	635	635	39.8	39.8	55.3	69.5	2.1	2.1	3.7	1.3	1.3	1.6	
8 604	8 435	169	6 485	138	1 471	1 471	31	611	611	39.8	39.8	55.3	68.6	1.9	1.9	5.3	1.4	1.4	2.4	
174	149	25	121	25	22	22	—	—	—	40.8	40.8	68.5	76.0	5.4	5.4	—	—	—	—	
275	273	2	170	52	47	47	—	—	—	37.7	37.7	69.2	69.2	7.6	7.6	—	—	—	—	
570	563	7	482	7	62	62	—	—	—	41.5	41.5	57.0	57.0	—	—	—	—	—	—	
9 475	7 973	1 502	5 824	1 233	1 793	1 793	176	540	540	38.0	38.0	64.3	46.3	12.3	12.3	1.5	0.3	0.3	—	
104	104	—	92	—	—	—	—	—	—	52.9	52.9	55.4	65.4	—	—	—	—	—	—	
543	523	20	447	20	69	69	—	—	—	37.5	37.5	63.5	65.0	6.1	6.1	—	—	—	—	
190	183	7	124	—	56	56	7	3	3	31.3	31.3	54.1	54.1	—	—	—	3.3	3.3	—	
8 638	7 183	1 475	5 161	1 213	1 663	1 663	169	523	523	34.3	34.3	54.7	46.3	2.5	2.5	1.6	0.2	0.2	—	
Other material moving equipment operators																				
36 811	22 579	14 232	16 715	10 799	4 494	4 494	2 659	2 386	2 386	31.8	31.8	56.1	44.4	2.4	2.4	0.8	0.3	0.3	0.2	
Handlers, equipment cleaners, helpers, and laborers																				
63	63	—	58	—	5	5	—	—	—	43.4	43.4	61.9	—	7.9	7.9	—	—	—	—	
1 691	1 411	280	1 057	163	205	205	75	223	223	32.2	32.2	60.9	37.5	—	—	—	0.1	0.1	—	
630	576	54	436	13	111	111	20	47	47	33.7	33.7	60.8	79.6	3.8	3.8	—	—	—	—	
5 606	4 119	1 487	3 232	1 149	739	739	310	261	261	31.6	31.6	61.2	48.0	2.2	2.2	0.7	—	—	—	
Freight, stock, and material handlers																				
1 005	603	402	431	316	138	138	86	37	37	31.3	31.3	47.4	26.9	1.5	1.5	—	—	—	—	
9 065	2 493	6 572	1 714	5 102	2 707	2 707	1 048	370	370	37.6	37.6	48.7	43.8	2.3	2.3	0.9	0.8	0.8	—	
18 751	13 314	5 437	9 787	4 056	2 707	2 707	1 120	1 448	1 448	31.7	31.7	55.5	45.3	2.4	2.4	0.9	0.4	0.4	0.4	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																
Lumber and wood products, except furniture																
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total		White		Black												
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
699 250	598 122	101 128	500 924	85 417	76 457	11 992	26 073	4 787	34.6	34.1	55.8	67.1	6.3	4.4	10.1	2.3
57 950	51 390	6 560	49 547	6 365	1 057	133	866	120	40.9	36.3	84.8	90.5	35.8	20.8	13.1	5.4
50 177	44 591	5 586	43 003	5 414	949	121	740	92	41.7	37.6	83.5	89.8	32.1	16.7	14.7	5.3
9	9	—	—	—	—	—	—	—	57.5	—	33.3	—	—	—	—	—
1 263	982	281	937	281	15	2	18	—	36.4	36.4	96.2	94.0	68.2	27.4	0.5	—
3 521	3 164	357	3 139	355	19	2	34	7	40.9	36.0	93.9	93.0	43.0	17.9	1.6	5.6
11	11	—	—	—	—	—	—	—	61.1	—	36.4	—	—	—	—	—
1 900	1 676	224	1 616	216	42	8	34	13	39.5	34.2	89.0	97.8	42.1	19.2	5.1	—
34 198	31 343	2 855	30 310	2 774	591	66	532	45	42.6	40.7	81.5	85.7	27.9	12.6	19.2	9.5
27 773	25 238	2 535	24 435	2 462	451	58	406	29	42.7	40.2	84.8	87.9	31.6	13.3	98.4	84.7
6 425	6 105	320	5 875	312	140	8	126	16	42.6	43.8	67.9	68.8	12.8	6.9	—	—
9 275	7 406	1 869	6 981	1 788	282	45	122	27	38.4	34.5	84.7	93.7	38.2	20.9	5.3	0.3
3 494	2 348	1 146	2 285	1 096	21	32	66	15	36.6	33.3	98.3	97.4	68.1	27.8	0.3	—
1 516	1 288	228	1 174	222	59	8	30	5	37.9	37.8	74.6	88.6	16.1	20.6	2.3	—
3 805	3 375	430	3 144	415	191	8	30	5	38.5	36.7	78.8	87.4	25.1	3.5	10.0	1.2
59	54	5	49	5	6	5	7	—	53.7	50.0	57.4	—	49.3	—	—	—
401	341	60	329	55	2	—	6	—	41.9	36.1	91.8	96.7	47.6	16.7	5.6	—
7 773	6 799	974	6 544	951	108	12	126	28	34.7	31.2	93.8	94.4	60.1	44.3	2.8	6.2
3 052	2 921	131	2 806	131	44	—	62	—	35.4	30.1	95.5	100.0	54.6	26.7	1.1	—
98	77	21	70	21	7	—	55	—	32.3	29.4	87.0	100.0	54.5	100.0	3.9	—
2 873	2 769	110	2 655	110	37	—	—	—	35.9	30.2	98.2	100.0	55.4	12.7	0.9	—
298	279	19	261	19	8	—	—	—	32.7	25	98.2	100.0	65.6	31.6	—	—
178	173	5	166	17	—	—	—	—	35.4	30.0	100.0	100.0	58.4	10.5	—	—
948	872	76	828	76	21	—	28	—	35.7	31.3	93.3	100.0	40.8	10.5	—	—
401	401	—	401	—	—	—	—	—	38.0	—	96.8	—	51.6	—	—	—
1 038	1 038	10	999	10	8	—	20	—	36.9	25	97.9	100.0	65.8	—	2.3	—
81	81	—	81	—	—	—	—	—	26.1	—	72.8	—	27.2	—	6.2	—
206	162	44	140	44	17	—	12	—	32.5	38.3	96.3	100.0	46.9	36.4	—	—
96	63	33	63	33	—	—	—	—	41.6	26.3	93.7	100.0	33.3	12.1	—	—
55	24	31	14	29	10	2	—	—	56.5	30.7	100.0	100.0	29.2	—	—	—
2 642	2 523	119	2 457	114	30	—	13	—	33.7	27.4	95.6	95.8	73.3	83.2	1.8	4.2
152	135	17	120	12	5	2	—	—	43.3	32.5	100.0	100.0	81.5	58.8	—	—
2 388	2 337	102	2 337	102	25	—	13	—	33.4	27.2	95.3	95.1	72.8	87.3	1.9	4.9
6	6	—	6	—	—	—	—	—	50.0	49.0	100.0	100.0	100.0	51.1	—	—
111	23	88	23	88	—	—	—	—	32.2	49.0	100.0	100.0	87.0	51.1	—	—
88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	23	—	23	—	—	—	—	—	32.2	—	100.0	—	87.0	—	—	—
60	37	23	30	23	—	—	7	—	38.8	30.0	64.9	91.3	40.5	34.8	16.2	—
239	193	46	193	46	—	—	—	—	33.5	32.9	100.0	100.0	76.2	34.8	—	—
8	8	—	8	—	—	—	—	—	61.7	—	—	—	—	—	—	—
106	100	6	100	—	—	—	—	—	39.6	40.0	94.0	100.0	94.0	100.0	14.0	13.4
1 118	708	410	673	400	7	2	32	17	36.7	31.2	79.9	92.0	35.7	43.9	19.4	—
74	31	43	31	43	—	—	—	—	30.3	25.3	93.5	65.1	16.1	51.2	—	—
60 619	27 299	33 320	25 189	31 622	1 513	987	811	808	36.0	34.2	79.7	89.0	17.7	5.9	4.7	1.7
4 851	4 205	646	3 987	609	74	7	70	3	32.4	29.8	88.7	88.4	20.3	21.4	1.8	2.3
37	11	26	11	20	—	—	—	—	47.2	29.2	81.8	80.8	27.3	30.8	—	—
2	2	—	—	—	—	—	—	—	60.0	—	—	—	—	—	—	—
35	9	26	9	20	—	—	—	—	47.5	29.2	100.0	80.8	33.3	30.8	—	—
3 580	3 190	390	3 022	364	65	7	60	3	31.7	28.7	87.7	84.4	17.4	15.9	2.2	3.8
136	117	19	117	19	—	—	—	—	29.5	34.5	100.0	63.2	14.5	—	—	—
83	83	—	—	—	—	—	—	—	48.1	—	90.4	90.4	15.7	—	—	—
1 788	1 788	199	1 689	191	24	—	25	—	29.7	25	90.5	91.0	14.4	18.1	2.2	7.5
1 374	1 202	172	1 133	154	41	7	35	—	34.3	32.8	82.3	79.1	22.2	15.1	2.5	—
1 234	1 004	230	954	225	9	—	10	—	34.6	31.0	91.6	96.1	29.4	29.6	0.6	—
231	226	5	226	5	—	—	—	—	41.8	50.0	93.8	100.0	23.5	—	—	—
21	15	6	15	6	—	—	—	—	41.8	50.0	100.0	100.0	27.9	46.0	1.9	—
447	308	139	308	134	—	—	—	—	30.5	28.4	100.0	100.0	27.9	46.0	—	—
535	455	80	405	80	9	—	—	—	34.9	34.0	87.9	96.3	34.3	5.0	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Lumber and wood products, except furniture																		
Occupation	Race				Block		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male		Female		Male		Female		Male		Female	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																		
Technical, sales, and administrative support occupations—Con.																		
Sales occupations																		
Supervisors and proprietors, sales occupations																		
Self-employed																		
Sales representatives, finance and business services																		
Sales representatives, commodities, except retail																		
Sales workers, retail and personal services																		
Cashiers																		
Other sales occupations, retail and personal services																		
Sales related occupations																		
Administrative support occupations, including clerical																		
Supervisors, administrative support occupations																		
Computer equipment operators																		
Secretaries, stenographers, and typists																		
Secretaries																		
Stenographers and typists																		
Receptionists																		
Other information clerks																		
File clerks																		
Other records processing occupations, except financial																		
Bookkeepers, accounting, and auditing clerks																		
Payroll and timekeeping clerks																		
Other financial records processing occupations																		
Telephone operators																		
Mail and message distributing occupations																		
Production coordinators and expeditors																		
Traffic, shipping, and receiving clerks																		
Stock and inventory clerks																		
Other material recording, scheduling, and distributing clerks																		
Adjusters and inspectors																		
Date-entry keyers																		
Other administrative support occupations																		
Service occupations																		
Private household occupations																		
Protective service occupations																		
Guard																		
Other protective service occupations																		
Service occupations, except protective and household																		
Food preparation and service occupations																		
Food service occupations																		
Health service occupations																		
Cleaning and building service occupations, except household																		
Personal service occupations																		
Farming, forestry, and fishing occupations																		
Precision production, craft, and repair occupations																		
Mechanics and repairers																		
Supervisors, mechanics and repairers																		
Automobile mechanics, including body																		
Industrial machinery repairers																		
Electronic repairers, communications and industrial equipment																		
Heating, air conditioning, and refrigeration mechanics																		
Other mechanics and repairers																		
Construction trades																		
Supervisors, construction occupations																		
Carpenters																		
Electricians																		
Painters, construction and maintenance																		
Plumbers, pipefitters, and steamfitters																		

Persons of Spanish origin may be of any race.

Table 1. **Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.**

(Data are estimates based on a sample; see introduction. For missing values, see text.)

United States

Lumber and wood products, except furniture

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Extraction occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Machinists

Sheet metal workers

Other precision metal workers

Precision textile, apparel, and furnishings machine workers

Precision food production occupations

Precision inspectors, testers, and related workers

Plant and system operators

Other precision production occupations

Operators, fabricators, and laborers

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing and woodworking machine operators

Printing occupations

Printing machine operators

Textile machine operators

Textile sewing machine operators

Laundry and dry cleaning machine operators

Package and filling machine operators

Furnace, kiln, and oven operators, except food

Other specified machine operators

Miscellaneous and not specified machine operators

Fabricators, assemblers, and hand working occupations

Welders and cutters

Solders and brazers

Assemblers

Hand working occupations

Production inspectors, testers, samplers, and weighers

Graders and sorters, except agricultural

Other production inspectors, testers, samplers, and weighers

Transportation and material moving occupations

Motor vehicle occupations

Truck drivers

Driver-sales workers

Other motor vehicle operators

Rail and water transportation occupations

Supervisors, material moving equipment operators

Crane, hoist, and winch operators

Cranes, hoisting, grading, and dozer machine operators

Other material moving equipment operators

Industries, equipment cleaners, helpers, and laborers

Supervisors, handlers, equipment cleaners, and laborers, n.e.c.

Helpers, craft and production

Construction laborers

Freight, stock, and material handlers

Warehouse and service station occupations, and equipment cleaners

Hand packers and packagers

Suburbs, except construction

Persons of Spanish origin may be of any race.

Percent self-employed

Percent completed 4 or more years of college

Percent high school graduates

Median age

Spanish origin¹

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Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Furniture and fixtures																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female			
	Male	Female	Male	Female	Male	Female											
Employed persons 16 years and over	530 144	367 595	162 549	307 317	134 601	36 935	20 838	42 100	11 028	34.3	35.0	55.4	56.8	7.4	2.8	3.4	0.9
Managerial and professional specialty occupations	44 758	36 897	7 861	35 347	7 405	795	202	1 350	359	40.8	36.3	87.3	86.4	36.6	18.7	8.1	4.5
Executive, administrative, and managerial occupations	37 574	31 206	6 368	30 007	6 050	633	140	1 136	301	41.5	36.3	86.7	88.5	36.4	17.1	8.6	4.5
Officials and administrators, public administration	7	7	—	—	—	—	—	—	—	30.0	30.0	100.0	100.0	100.0	—	—	—
Financial managers	1 451	1 101	350	1 074	350	—	—	35	10	39.3	35.5	100.0	96.6	63.9	19.1	0.7	—
Managers, marketing, advertising, and public relations	3 599	3 048	551	3 014	543	26	—	40	9	40.7	33.4	97.4	89.8	53.2	22.7	3.0	2.9
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	1 718	1 370	348	1 276	337	73	—	48	37	38.9	35.5	88.5	—	44.2	12.4	3.1	—
Managers and administrators, n.e.c.	24 729	21 578	3 151	20 717	2 981	445	83	813	178	42.5	39.1	83.7	85.4	31.6	18.2	11.5	7.5
Salaries	21 898	19 037	2 861	18 254	2 712	421	83	664	178	42.3	38.8	85.0	86.4	33.1	17.4	—	—
Self-employed	2 831	2 541	290	2 463	269	24	—	149	—	44.0	42.5	74.1	74.8	20.9	25.5	97.5	81.0
Management related occupations	6 070	4 102	1 968	3 919	1 839	89	57	200	67	37.7	33.5	90.2	91.6	38.6	14.4	1.6	1.7
Accountants and auditors	2 374	1 497	877	1 438	797	27	29	27	29	34.7	33.4	99.5	98.1	57.1	19.0	0.8	1.5
Personnel, training, and labor relations specialists	1 168	858	310	773	294	52	28	111	28	39.4	32.2	66.3	77.4	16.2	12.9	1.2	—
Buyers and purchasing agents	2 102	1 475	627	1 436	600	10	13	55	3	38.9	33.8	93.3	90.6	29.9	9.9	2.0	0.8
Inspectors and compliance officers	19	6	13	6	7	—	—	—	7	50.0	30.0	100.0	46.2	—	—	—	—
Other management related occupations	407	266	141	266	141	—	—	7	—	39.2	41.1	97.0	91.5	56.0	10.6	4.9	11.3
Professional specialty occupations	7 184	5 691	1 493	5 340	1 355	162	62	214	58	35.5	36.1	90.8	77.4	37.7	25.3	5.5	4.4
Engineers, architects, and surveyors	3 461	3 227	234	3 127	194	36	—	61	29	35.7	31.4	96.9	86.3	37.6	9.8	—	—
Architects	89	65	24	38	—	—	—	—	—	34.2	25	92.3	100.0	38.5	—	—	—
Engineers	3 372	3 162	210	3 069	194	36	—	54	5	35.7	32.8	97.0	84.8	39.6	11.0	—	—
Civil engineers	35	35	—	31	—	4	—	—	—	41.1	—	100.0	—	28.6	—	—	—
Electrical and electronic engineers	148	138	10	138	10	—	—	—	—	30.0	30.0	95.7	100.0	73.9	—	—	—
Industrial engineers	1 748	1 613	165	1 572	149	20	—	35	5	32.8	33.0	96.6	83.6	38.8	13.9	—	—
Mechanical engineers	452	444	8	424	8	6	—	12	—	40.8	45.0	97.7	100.0	45.0	—	—	—
Other engineers	932	932	27	904	27	6	—	7	—	36.9	25	97.5	81.5	33.7	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	161	140	21	140	21	—	—	—	—	36.4	26.9	90.0	100.0	37.1	9.5	—	—
Operations and systems researchers and analysts	121	107	14	98	14	9	—	—	—	33.5	54.3	94.4	42.9	22.4	42.9	—	—
Mathematical scientists	30	17	13	17	13	—	—	—	—	60.8	50.6	100.0	100.0	64.7	15.4	—	—
Natural scientists	67	59	8	56	8	—	—	—	—	49.6	30.0	89.8	100.0	45.8	—	—	—
Chemists, except biochemists	42	42	—	39	—	—	—	—	—	50.7	—	85.7	—	42.9	—	—	—
Other natural scientists	25	17	8	17	8	—	—	—	—	37.5	30.0	100.0	100.0	52.9	—	—	—
Health diagnosing occupations	6	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	137	—	137	—	137	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses	130	—	130	—	130	—	—	—	—	—	—	—	—	—	—	—	—
Other health assessment and treating occupations	7	—	7	—	7	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, except postsecondary	81	46	35	24	35	22	—	—	—	31.3	40.3	80.4	65.7	15.2	28.6	6.3	—
Social scientists and urban planners	220	176	44	176	44	—	—	—	—	32.1	25	100.0	84.1	85.2	36.4	—	—
Social and recreation workers	28	16	12	16	6	—	—	—	—	45.0	30.0	100.0	—	—	—	—	—
Lawyers and judges	20	20	—	20	—	—	—	—	—	39.0	37.0	100.0	—	100.0	—	—	—
Writers, artists, entertainers, and athletes	2 795	1 836	959	1 619	867	95	56	153	29	35.1	30.0	80.2	71.6	30.9	28.3	16.6	6.9
Other professional specialty occupations	57	47	10	47	10	—	—	—	—	34.4	58.8	61.7	40.0	27.7	20.0	—	—
Technical, sales, and administrative support occupations	71 881	32 688	39 193	29 349	36 616	2 164	1 504	2 049	1 797	36.1	32.8	76.4	85.6	17.2	4.9	3.8	1.1
Technicians and related support occupations	4 112	3 362	750	3 160	726	114	5	147	33	32.7	29.5	89.9	92.4	14.3	19.3	1.2	1.1
Health technologists and technicians	26	6	20	6	20	—	—	—	—	40.0	30.0	100.0	100.0	100.0	—	—	—
Licensed practical nurses	20	—	20	—	20	—	—	—	—	—	—	—	—	—	—	—	—
Other health technologists and technicians	6	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and science technicians	3 049	2 606	443	2 458	422	87	5	125	30	32.9	29.1	89.4	88.9	12.9	17.4	1.5	0.5
Electrical and electronic technicians	160	132	28	102	12	21	—	8	8	27.8	25	87.1	42.9	2.3	14.3	—	—
Industrial and mechanical engineering technicians	166	143	23	143	23	—	—	—	—	33.1	31.1	94.4	100.0	37.1	—	—	—
Drafting and surveying technicians	2 114	1 820	294	1 715	289	66	5	73	22	32.1	27.0	90.9	93.5	8.9	20.4	1.8	0.7
Other engineering and science technicians	609	511	98	498	98	—	—	44	—	38.7	34.5	83.2	85.7	22.9	13.3	1.4	—
Technicians, except health, engineering, and science	1 037	750	287	696	284	27	—	22	3	32.0	30.0	91.3	97.2	18.8	23.7	—	2.1
Airplane pilots and navigators	21	21	—	21	—	—	—	—	—	33.8	—	100.0	—	23.8	—	—	—
Air traffic controllers and broadcast equipment operators	19	14	5	14	5	—	—	—	—	33.0	40.0	100.0	—	—	—	—	—
Computer programmers	604	398	206	366	206	19	—	8	—	29.9	28.4	100.0	97.1	30.2	33.0	—	2.9
Other technicians, except health, engineering, and science	393	317	76	295	73	8	—	14	3	37.4	33.2	79.5	97.4	5.0	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Furniture and fixtures													
Race													
Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent self-employed	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male		Female
14 459	11 899	11 553	2 400	179	86	292	112	41.6	33.9	89.2	81.6	9.1	6.7
1 464	1 134	1 109	303	6	22	76	22	41.0	39.1	79.3	72.7	16.6	10.0
1 223	938	885	258	4	22	77	22	40.5	37.7	77.5	72.6	95.9	73.3
155	136	135	1	1	6	6	6	44.2	43.2	87.8	84.2	—	—
12 459	10 534	10 245	1 819	141	45	207	61	40.5	38.9	90.3	84.1	8.5	7.2
186	159	158	1	29	13	29	29	23.0	23.0	100.0	100.0	—	—
175	146	145	1	15	7	—	—	25.0	25.0	100.0	100.0	—	—
22	17	17	5	14	6	—	—	37.3	37.3	—	—	—	—
53 310	17 427	14 636	33 490	1 871	1 413	1 410	1 652	33.3	32.8	65.2	85.7	0.7	0.7
3 620	2 596	2 339	886	153	52	212	67	37.8	37.4	75.5	72.0	1.0	0.5
1 323	1 469	1 547	11 547	23	303	42	426	30.3	29.7	74.6	72.1	—	—
11 716	162	154	10 026	13	211	—	—	48.8	48.8	81.5	80.8	—	—
10 543	130	134	1 006	7	92	—	—	30.2	30.2	51.3	51.3	—	—
1 173	39	32	1 006	134	32	—	—	26.5	26.5	100.0	100.0	—	—
1 025	27	29	189	9	7	—	—	31.3	31.3	—	—	—	—
221	37	39	189	13	66	5	31	36.4	36.4	—	—	—	—
1 345	339	353	1 134	60	80	43	114	33.5	31.5	77.6	83.4	1.5	2.3
1 729	441	1 288	1 104	24	94	15	242	40.4	38.9	92.1	90.9	0.9	1.0
6 336	582	575	5 000	—	—	—	—	45.5	45.5	100.0	100.0	—	—
1 261	103	103	1 04	—	—	—	—	35.3	35.3	83.9	84.6	—	—
918	137	123	726	—	—	—	—	30.9	30.9	46.2	46.2	—	—
309	13	6	269	43	22	7	20	27.7	27.7	30.6	30.6	—	—
496	280	216	1 541	116	60	72	120	32.2	32.2	73.5	76.9	1.4	—
3 189	1 701	1 488	1 374	109	98	83	149	32.6	32.6	62.1	66.7	0.1	—
7 859	6 431	5 183	1 108	1 029	98	169	34	32.6	32.6	61.1	64.5	1.7	—
3 501	2 038	1 463	1 778	156	93	149	28	33.7	33.7	100.0	100.0	—	—
494	296	258	1 644	30	20	28	64	43.2	43.2	—	—	—	—
973	303	266	618	30	6	7	28	33.7	33.7	—	—	—	—
1 173	30	15	1 005	98	22	7	64	33.3	33.3	—	—	—	—
5 822	1 289	1 045	4 147	174	222	90	281	34.0	32.7	69.8	83.3	1.8	1.3
9 796	8 107	6 702	1 150	1 101	508	593	92	46.8	42.8	34.7	36.3	0.5	1.5
1 891	1 820	71	69	162	2	16	—	57.2	46.5	31.2	52.1	0.3	5.6
1 849	1 778	1 603	69	162	2	16	—	57.3	46.5	30.5	52.1	0.3	5.6
42	42	42	—	—	—	—	—	49.3	49.3	—	—	—	—
7 905	6 287	5 057	1 081	939	506	577	92	42.4	42.7	35.7	35.8	0.6	1.3
276	107	70	158	29	11	8	6	37.8	38.4	41.1	56.8	5.6	4.7
52	2	2	43	884	7	569	75	30.0	47.9	100.0	56.0	—	—
7 403	6 093	4 926	822	884	462	569	75	42.9	43.3	33.2	32.6	0.5	1.0
174	85	59	58	26	26	—	11	28.8	41.6	—	—	—	—
484	422	289	49	124	8	28	—	32.1	38.2	47.4	56.5	8.3	—
128 663	110 261	96 045	14 527	7 634	3 153	13 080	1 087	35.0	35.6	57.4	47.2	5.2	1.2
8 819	7 823	7 121	751	576	116	505	41	38.3	33.0	51.6	50.8	0.5	—
150	150	139	15	11	—	—	—	49.0	—	29.3	—	—	—
277	249	249	28	49	13	7	—	36.3	46.3	47.8	17.9	5.2	—
4 537	4 289	3 842	231	331	17	243	9	37.4	31.0	49.5	36.7	—	—
112	80	80	32	—	—	5	—	40.7	33.7	55.0	56.3	—	—
111	109	75	2	13	—	30	—	41.0	30.0	86.2	100.0	—	—
3 632	3 056	2 785	471	172	86	213	32	38.9	34.2	54.6	58.0	—	—
16 549	15 550	12 846	781	963	152	3 512	100	32.6	33.1	55.6	54.4	0.9	—
326	320	292	6	6	6	33	—	40.8	31.0	67.2	100.0	7.0	3.3
12 777	12 154	10 665	497	627	71	2 958	75	32.0	30.9	55.0	41.5	4.4	5.0
1 155	1 109	1 056	36	42	6	46	—	37.0	29.8	70.8	28.3	8.3	—
1 480	1 264	1 056	153	228	56	404	14	37.0	36.0	44.1	38.0	0.9	—
171	171	165	—	6	—	10	—	39.2	40.7	51.5	51.5	—	—
640	532	443	95	54	13	61	11	33.0	40.7	60.5	54.6	11.7	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Furniture and fixtures						
	Race																
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extraction occupations																	
Precision production occupations	64	42	22	35	11	7	11	9	38.8	25.0	40.9	40.9	—	—	—	—	—
Supervisors, production occupations	103 231	86 736	16 495	76 043	12 984	6 088	2 844	9 063	35.2	35.9	58.2	46.6	—	—	—	5.3	1.2
Precision manufacturing occupations	33 262	29 896	3 366	27 049	2 849	1 745	1 103	2 449	37.9	39.2	61.6	57.2	—	—	—	1.7	1.2
Food and kindred workers	5 924	5 379	545	4 836	401	437	183	384	37.9	33.7	61.9	59.1	—	—	—	0.2	—
Mechanics	1 718	1 413	305	1 108	305	99	8	78	41.0	38.3	70.9	100.0	—	—	—	0.1	—
Other precision production occupations	2 753	2 413	340	1 536	223	292	66	246	33.5	31.4	53.6	53.5	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	872	547	325	322	12	34	34	29	43.5	51.4	49.7	73.5	—	—	—	—	—
Precision food production occupations	17 727	13 725	4 002	11 207	2 518	1 336	12	2 446	32.9	37.8	48.1	62.5	—	—	—	1.0	—
Precision inspectors, testers, and related workers	387	348	39	247	28	10	6	64	32.9	33.7	50.3	50.8	—	—	—	2.1	1.2
Plant and system operations	100	90	10	53	12	6	1	—	28.8	40.0	51.1	80.0	—	—	—	1.7	—
Other precision production occupations	475	443	32	426	17	13	5	—	40.7	25.0	71.1	83.3	—	—	—	—	—
Other precision production occupations	45 356	36 835	8 521	32 363	6 557	2 496	1 755	3 715	32.7	35.6	58.6	39.5	—	—	—	10.3	1.2
Operators, fabricators, and laborers																	
Machine operators, assemblers, and inspectors	274 562	179 220	95 342	139 585	74 854	25 117	15 423	25 000	32.0	35.8	44.7	44.7	—	—	—	1.4	0.4
Machine operators and tenders, except precision	221 192	136 847	84 345	106 918	66 456	18 045	13 375	20 080	32.3	36.0	44.5	44.8	—	—	—	1.7	0.4
Metalworking and plastic working machine operators	131 209	78 702	52 507	62 233	42 031	9 942	7 838	9 942	32.3	36.8	42.3	43.5	—	—	—	0.8	0.4
Fabricating machine operators, n.e.c.	20 348	12 387	7 961	10 271	6 251	1 204	1 428	1 508	36.2	36.2	39.9	40.0	—	—	—	0.1	0.2
Metal and plastic processing and woodworking machine operators	1 102	597	505	472	121	71	25	55	33.6	35.6	45.2	49.7	—	—	—	1.0	—
Printing machine operators	28 196	21 796	6 400	18 179	5 342	2 580	779	1 682	33.5	36.3	44.1	45.0	—	—	—	1.8	0.7
Textile machine operators	458	295	163	242	111	82	26	40	29.0	35.1	54.6	57.7	—	—	—	2.4	—
Textile sewing machine operators	1 089	1 985	17 104	1 463	14 524	235	1 426	431	28.1	31.7	45.7	44.9	—	—	—	1.1	—
Laundry and dry cleaning machine operators	92	37	55	25	22	—	—	12	25	37.3	35.1	21.8	—	—	—	0.5	0.6
Packaging and filling machine operators	350	148	202	104	164	29	34	30	—	39.0	41.9	47.5	—	—	—	—	—
Furnace, kiln, and oven operators, except food	840	793	47	674	30	119	0	18	47.7	33.2	46.4	42.6	—	—	—	—	—
Other specified machine operators	19 588	13 138	6 450	10 270	5 021	1 795	1 252	1 873	33.3	33.8	42.5	45.0	—	—	—	1.0	0.8
Miscellaneous and not specified machine operators	39 588	26 688	12 900	19 791	9 589	4 502	2 574	4 224	33.3	35.0	41.0	45.1	—	—	—	0.4	0.1
Fabricators, assemblers, and hand working occupations																	
Welders and cutters	78 538	53 082	25 456	40 377	19 217	6 875	4 570	9 724	30.2	33.9	47.1	46.4	—	—	—	3.2	0.4
Solders and brazers	8 457	7 362	1 095	6 353	850	946	155	1 236	31.4	35.3	55.9	45.7	—	—	—	0.2	—
Assemblers	129	83	46	26	29	26	—	36	26.3	37.8	12.0	28.3	—	—	—	—	—
Hand working occupations	68 466	45 026	23 440	34 225	17 695	5 816	4 184	8 317	30.0	33.8	45.8	46.8	—	—	—	3.7	0.4
Production inspectors, testers, samplers, and weighers	1 486	611	875	469	643	87	211	135	29.8	32.0	46.0	37.5	—	—	—	0.1	0.2
Graders and sorters, except agricultural	11 445	5 063	6 382	4 308	5 208	527	977	414	38.7	38.2	50.3	48.8	—	—	—	3.2	0.3
Other production inspectors, testers, samplers, and weighers	522	277	245	224	217	51	38	14	33.9	42.9	38.6	55.9	—	—	—	6.1	2.4
Transportation and material moving occupations																	
Transportation occupations	19 055	18 088	967	14 145	759	3 056	1 188	1 650	33.1	32.2	48.0	53.9	—	—	—	0.4	0.2
Motor vehicle operators	11 061	10 878	183	8 575	144	1 878	59	890	35.1	37.0	46.2	50.3	—	—	—	0.6	1.1
Truck drivers	10 025	10 842	183	8 544	144	1 878	59	885	35.0	37.0	46.2	50.3	—	—	—	0.6	1.1
Driver-sales workers	163	160	3	124	3	31	—	5	35.0	37.5	45.9	41.7	—	—	—	0.6	1.3
Other motor vehicle operators	218	194	24	172	24	18	—	29	33.9	40.0	65.0	100.0	—	—	—	3.8	—
Rail and water transportation occupations	36	36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators	7 994	7 210	784	5 570	615	1 178	159	760	30.0	31.5	50.6	54.7	—	—	—	0.1	—
Supervisors, material moving equipment operators	89	89	—	79	7	7	—	13	31.9	30.0	69.7	100.0	—	—	—	—	—
Crews, hoist and winch operators	194	187	7	148	7	17	—	19	31.4	30.0	50.3	100.0	—	—	—	—	—
Excavating, grading, and dozer machine operators	55	42	13	42	13	—	—	8	25.7	28.3	9.5	25.7	—	—	—	—	—
Other material moving equipment operators	7 656	6 892	764	5 301	595	1 154	159	720	29.8	31.7	50.6	53.5	—	—	—	0.1	—
Handlers, equipment cleaners, helpers, and laborers																	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	34 315	24 285	10 030	18 522	7 639	4 016	1 870	3 270	29.2	34.7	43.8	43.1	—	—	—	0.4	0.2
Helpers, craft and production	59	51	8	45	8	6	—	—	48.8	31.7	41.2	100.0	—	—	—	—	—
Construction laborers	2 191	1 720	471	1 237	312	201	118	529	27.1	33.0	41.4	47.1	—	—	—	1.0	0.8
Freight, stock, and material handlers	221	155	66	113	55	42	11	9	31.0	28.8	56.1	45.5	—	—	—	—	—
Garage and service station occupations, and equipment cleaners	7 308	6 241	1 067	4 930	862	1 096	164	401	26.8	34.9	44.6	45.4	—	—	—	0.1	—
Hand packers and packagers	311	185	126	154	63	12	56	23	33.1	32.1	47.6	20.6	—	—	—	—	—
Laborers, except construction	8 820	5 126	3 694	3 845	3 021	786	422	801	33.1	35.6	44.2	29.0	—	—	—	0.9	—
Laborers, except construction	15 405	10 807	4 598	8 198	3 318	1 873	1 069	1 507	30.6	34.4	43.3	41.9	—	—	—	0.7	0.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																				
Stone, clay, glass, and concrete products																				
Occupation	Total				Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Both sexes		Male		White		Black		Male		Female		Male		Female		Male		Female	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over	650 733	497 382	153 351	431 676	133 485	44 229	14 051	33 973	8 931	37.4	36.5	65.0	69.8	10.2	5.3	1.9	3.2			
Managerial and professional specialty occupations	78 719	65 779	12 940	63 634	12 167	766	381	1 277	444	42.3	36.9	91.1	89.6	45.8	23.8	5.3	14.9			
Executive, administrative, and managerial occupations	57 190	49 136	8 054	47 906	7 576	481	252	914	198	43.4	38.5	89.7	91.6	41.3	20.5	5.3	8.4			
Officials and administrators, public administration	2 289	1 930	359	1 885	325	15	19	59	11	42.3	37.9	95.1	96.7	64.4	16.2	—	—			
Financial managers	5 676	5 241	435	5 204	414	18	—	21	14	44.5	40.0	95.9	92.9	52.1	26.0	1.2	3.0			
Managers, marketing, advertising, and public relations	52	44	8	44	8	—	—	—	—	39.6	40.0	84.1	100.0	77.3	13.6	—	—			
Administrators, education and related fields	2 106	1 780	326	1 757	320	15	6	30	23	44.9	40.3	91.7	95.1	49.7	23.9	2.9	—			
Managers, medicine and health	37 059	33 208	3 851	32 400	3 667	300	77	629	116	43.9	41.7	88.0	88.3	36.6	16.8	7.4	16.8			
Managers and administrators, n.e.c.	33 855	30 701	3 154	29 932	2 975	294	77	549	110	44.1	42.1	88.3	87.6	20.7	25.0	—	—			
Self-employed	3 204	2 507	697	2 468	672	6	—	80	6	41.6	—	84.0	91.2	77.3	93.0	97.7	93.0			
Management related occupations	10 008	6 933	3 075	6 616	2 842	133	150	175	34	39.3	34.6	91.1	94.7	47.1	24.7	0.6	0.4			
Accountants and auditors	5 160	3 421	1 739	3 263	1 595	54	89	50	17	35.7	33.0	97.5	95.3	62.1	33.4	0.2	0.4			
Personnel, training, and labor relations specialists	1 906	1 407	499	1 316	461	50	32	107	6	41.9	39.1	76.3	92.6	25.7	19.6	0.9	1.0			
Buyers and purchasing agents	2 177	1 520	657	1 478	611	15	24	6	11	43.5	36.8	71.5	97.9	30.5	6.8	0.2	—			
Inspectors and compliance officers	72	46	6	36	6	—	—	6	—	47.2	50.0	10.9	5.8	—	—	—	—			
Other management related occupations	673	499	174	473	169	14	5	6	—	37.8	40.4	91.2	86.2	61.7	21.3	3.4	0.6			
Professional specialty occupations	21 529	16 443	4 884	15 728	4 591	285	129	343	246	38.1	34.3	95.4	84.2	58.8	29.3	5.4	25.6			
Engineers, architects, and surveyors	10 908	10 595	402	10 081	361	149	24	178	—	38.9	30.5	97.7	95.5	44.4	43.4	0.5	0.5			
Architects	10 938	10 544	389	10 032	355	140	16	176	—	40.0	32.8	100.0	42.9	54.2	—	—	—			
Engineers	10 538	10 548	10	10 525	355	140	16	176	—	39.2	30.3	97.9	97.4	44.6	45.0	0.5	—			
Civil engineers	682	672	10	630	10	20	—	11	—	34.4	25	98.8	100.0	75.9	100.0	—	—			
Electrical and electronic engineers	2 941	2 777	234	2 601	210	30	11	88	—	39.1	32.8	97.1	98.7	67.3	80.0	0.3	—			
Industrial engineers	1 747	1 742	5	1 676	14	14	—	28	—	40.4	40.0	96.4	100.0	54.1	35.5	0.7	—			
Mechanical engineers	4 985	4 855	130	4 607	125	76	5	51	—	38.6	26.8	98.9	94.6	57.6	56.9	0.4	1.5			
Other engineers	27	27	—	18	—	9	—	—	—	46.7	—	44.4	—	22.2	—	22.2	—			
Surveyors and mapping scientists	575	491	84	475	79	4	5	3	—	37.1	31.8	100.0	100.0	50.7	42.9	—	—			
Computer systems analysts and scientists	329	284	65	261	45	3	—	3	—	38.6	32.1	100.0	100.0	53.8	27.7	2.7	7.7			
Operations and systems researchers and analysts	110	79	31	87	19	—	—	—	—	31.4	28.3	100.0	100.0	58.2	41.9	—	—			
Mathematical scientists	2 260	1 694	566	1 532	492	45	26	31	30	39.3	32.7	95.2	85.5	69.3	17.8	2.7	29.0			
Natural scientists	1 937	1 421	380	1 304	462	20	26	31	30	40.3	32.7	92.3	85.8	56.8	17.4	2.9	30.6			
Chemists, except biochemists	303	273	30	248	30	25	—	—	—	34.5	25	89.4	80.0	78.4	26.7	1.5	—			
Other natural scientists	44	35	—	35	—	—	—	—	—	58.3	50.0	100.0	100.0	100.0	19.1	—	100.0			
Health diagnosing occupations	543	10	533	10	518	—	15	2	13	43.3	47.2	100.0	97.0	100.0	20.4	—	0.9			
Health assessment and treating occupations	505	6	499	6	490	—	9	—	13	40.0	47.6	100.0	99.2	100.0	20.4	—	1.0			
Registered nurses	36	4	34	4	20	—	6	2	—	60.0	41.7	100.0	64.7	100.0	43.2	—	—			
Other health assessment and treating occupations	368	131	237	110	237	15	—	—	4	31.1	44.1	80.9	82.7	19.8	17.3	10.7	51.5			
Teachers, except postsecondary	544	417	127	400	127	2	7	5	—	36.9	32.2	100.0	98.4	80.1	56.3	1.2	6.3			
Social scientists and urban planners	17	4	13	2	6	—	—	—	—	45.0	30.0	100.0	100.0	100.0	100.0	—	—			
Social and recreation workers	265	240	25	240	25	—	—	—	—	36.7	31.6	100.0	100.0	31.6	29.9	—	—			
Lawyers and judges	5 351	2 631	2 720	2 443	2 568	62	52	134	199	34.7	33.5	84.8	81.9	31.3	29.7	29.5	34.4			
Writers, artists, entertainers, and athletes	125	51	73	40	73	5	—	7	—	43.8	31.4	71.2	97.3	32.7	43.2	—	—			
Other professional specialty occupations	84 729	46 453	50 276	42 911	47 086	2 298	2 207	1 646	1 567	38.8	34.8	84.3	89.5	19.9	5.6	1.6	1.0			
Technical, sales, and administrative support occupations	13 246	11 627	2 719	10 231	2 001	548	173	207	133	34.6	32.2	89.6	81.2	16.7	17.3	0.8	0.4			
Health technicians and technicians	137	79	58	65	46	6	12	—	—	38.3	37.9	100.0	100.0	81.0	38.0	6.3	—			
Health technicians and technicians	51	15	36	16	16	—	—	—	—	40.0	40.0	100.0	83.3	53.3	—	—	—			
Other health technicians and technicians	86	64	22	58	16	6	—	—	—	35.0	33.6	100.0	77.3	34.4	—	7.8	—			
Engineering and science technicians	10 026	8 460	1 566	7 873	1 381	373	125	181	118	34.6	33.3	88.7	76.8	12.1	10.9	0.9	0.6			
Electrical and electronic technicians	613	585	28	555	28	16	—	12	—	37.4	47.3	87.4	86.7	8.7	—	—	—			
Industrial and mechanical technicians	2 444	2 226	18	2 112	151	67	14	47	6	41.1	50.0	82.7	66.7	18.6	—	0.9	—			
Drafting and surveying technicians	2 502	2 331	171	2 213	151	7	—	—	—	32.0	29.1	92.9	79.5	9.4	13.5	2.1	—			
Other engineering and science technicians	6 667	5 318	1 349	4 893	1 184	281	111	122	112	35.7	33.7	87.0	77.1	13.3	11.0	0.5	0.7			
Technicians, except health, engineering, and science	3 183	2 528	655	2 293	574	169	36	26	15	34.5	29.9	92.2	91.9	31.4	34.0	0.2	—			
Airplane pilots and navigators	122	122	—	122	—	—	—	—	—	32.8	—	98.4	—	41.0	—	—	—			
Air traffic controllers and broadcast equipment operators	1 150	59	3	56	3	—	—	—	—	32.9	30.0	100.0	100.0	50.0	—	—	—			
Communications equipment operators	1 501	759	391	678	352	68	19	6	—	31.6	29.1	100.0	99.5	34.8	47.6	0.8	—			
Computer programmers	1 852	1 591	261	1 437	219	101	17	20	15	38.6	31.9	88.1	80.5	28.3	14.2	—	—			
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Stone, clay, glass, and concrete products														
Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total		White		Black										
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations—Con.														
Sales occupations														
Supervisors and proprietors, sales occupations	16 679	14 027	2 652	13 641	2 463	279	75	42.7	34.4	90.3	84.0	36.4	4.0	7.3
Salaried	1 293	1 066	227	1 032	185	7	6	43.3	38.4	89.1	82.4	33.0	21.1	17.2
Self-employed	1 029	841	188	812	147	7	6	43.1	38.4	94.1	78.7	39.0	100.0	100.0
Sales representatives, finance and business services	264	225	39	220	38	—	—	46.6	38.6	100.0	100.0	38.0	—	—
Sales representatives, commodities, except retail	106	71	35	58	35	4	54	46.6	34.0	100.0	100.0	37.1	2.6	7.1
Sales representatives, retail and personal services	14 735	12 663	2 072	12 344	1 992	256	15	35.6	34.9	70.3	58.3	10.0	2.6	2.7
Cashiers	509	209	300	189	233	5	9	40.5	34.7	60.9	58.0	30.4	—	—
Other sales occupations, retail and personal services	254	23	231	9	164	5	6	33.6	35.3	71.5	59.4	7.5	—	—
Sales related occupations	255	186	69	180	69	7	—	51.7	30.0	55.6	100.0	72.2	—	11.6
Sales related occupations	36	18	18	18	18	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical														
Supervisors, administrative support occupations	66 704	21 359	45 345	19 039	42 622	1 160	1 359	38.4	35.0	77.7	90.2	10.8	0.5	0.7
Computer equipment operators	4 487	3 037	1 450	2 856	1 365	79	54	41.8	39.5	88.5	93.9	12.5	0.6	0.3
Secretaries, stenographers, and typists	2 012	802	1 210	725	1 057	51	51	33.7	33.0	95.1	92.6	6.1	—	—
Secretaries	17 477	17 299	178	16 447	1 647	—	485	34.5	33.8	83.1	92.5	31.5	—	0.6
Stenographers and typists	15 980	15 825	155	15 098	1 598	—	430	34.4	33.9	83.9	93.1	36.1	—	0.7
Receptionists	1 497	23	1 474	23	1 497	—	35	55.4	33.0	78.3	85.8	0.7	—	0.1
Other information clerks	998	32	966	32	966	—	29	32.5	28.9	84.6	82.5	—	16.7	0.2
Other records processing occupations, except financial	331	86	242	36	93	16	29	32.5	28.9	84.6	82.5	—	9.0	—
Bookkeepers, accounting, and auditing clerks	1 759	804	955	739	795	22	30	34.8	35.5	82.1	72.8	10.9	—	—
Payroll and timekeeping clerks	2 195	760	1 435	635	1 375	34	22	36.6	34.9	82.2	87.9	13.0	0.9	—
Other financial records processing occupations	9 430	1 090	8 340	1 033	7 925	45	171	40.9	39.0	91.0	91.9	19.5	2.3	1.5
Telephone operators	1 691	250	1 441	239	1 375	50	25	45.3	36.5	84.0	94.3	2.0	—	—
Mail and message distributing occupations	1 148	217	931	210	872	7	25	37.7	36.2	94.0	92.9	27.2	—	—
Production coordinators and expeditors	413	29	384	29	366	—	—	45.7	45.4	69.0	89.1	1.8	—	—
Traffic, shipping, and receiving clerks	755	452	303	376	279	73	21	28.8	26.5	60.8	85.5	3.3	—	—
Stock and inventory clerks	3 206	2 105	1 101	1 924	1 024	119	41	40.4	35.1	79.4	83.0	10.8	0.3	0.2
Other material recording, scheduling, and distributing clerks	5 545	4 513	1 032	3 749	936	415	57	34.6	33.6	64.0	73.1	2.3	0.3	0.2
Adjusters and investigators	3 816	2 570	1 246	2 216	1 086	153	84	38.9	36.8	73.1	84.7	4.4	0.4	3.0
Data-entry keyers	2 474	1 976	498	1 817	453	69	21	39.0	33.7	72.3	80.7	3.2	—	—
Other administrative support occupations	744	370	374	351	343	11	36	34.5	34.1	94.6	92.2	21.9	1.0	1.1
Service occupations	1 719	83	1 636	58	1 447	—	—	30.6	31.1	72.3	91.7	3.1	—	—
Private household occupations	6 504	1 998	4 506	1 779	4 275	66	167	39.9	35.8	84.7	88.2	17.0	—	—
Protective service occupations	15 349	13 287	2 062	11 255	1 642	783	72	43.2	42.6	51.0	47.4	2.4	0.1	0.1
Guards	2 345	2 209	136	2 048	130	—	—	51.2	37.9	53.1	65.4	3.6	—	—
Other protective service occupations	2 220	2 089	131	1 940	125	54	—	51.6	38.0	51.6	64.1	3.5	—	—
Food preparation and service occupation	13 004	11 078	1 926	9 207	1 512	729	72	41.4	43.0	50.6	46.7	2.1	0.1	0.2
Health service occupations	350	135	215	112	204	7	—	37.4	48.1	97.6	99.2	—	—	—
Cleaning and building service occupations, except household	114	22	92	22	70	—	—	47.1	45.5	90.9	90.2	—	—	—
Personal service occupations	12 287	10 777	1 510	8 948	1 165	722	66	41.5	42.3	50.3	42.8	1.7	0.1	0.2
Farming, forestry, and fishing occupations	253	144	109	125	73	—	—	37.2	40.0	56.3	57.8	25.7	—	—
Precision production, craft, and repair occupations	332	290	42	246	20	22	8	31.4	33.3	56.2	78.6	6.2	1.4	—
Mechanics and repairers	120 013	113 049	6 964	102 436	6 037	6 461	644	40.1	37.6	66.2	63.2	5.4	1.7	8.5
Supervisors, mechanics and repairers	32 785	32 255	530	29 504	475	1 474	20	39.6	35.3	61.0	68.9	1.7	0.4	1.5
Automobile mechanics, including body	3 060	3 021	39	2 683	31	168	—	43.6	30.0	77.5	100.0	3.7	0.7	—
Electronic repairers, communications and industrial equipment	12 876	12 648	228	11 586	207	485	—	36.7	37.2	56.5	61.5	1.1	1.3	—
Heating, air conditioning, and refrigeration mechanics	348	342	6	330	6	10	—	39.0	50.0	88.0	100.0	0.3	—	—
Other mechanics and repairers	199	194	5	187	7	—	—	39.7	30.0	66.0	100.0	—	—	—
Construction trades	15 624	15 378	246	14 074	220	790	20	39.7	37.0	60.1	73.6	2.1	0.5	3.3
Supervisors, construction occupations	19 128	18 215	913	15 688	782	1 513	88	37.2	33.7	64.1	56.1	2.8	2.8	9.1
Carpenters	1 016	994	22	1 063	15	81	—	41.0	39.7	69.1	50.0	7.3	3.8	—
Electricians	2 023	1 948	75	1 812	48	32	—	39.7	30.0	60.3	36.0	2.5	3.3	—
Painters, construction and maintenance	5 542	5 471	51	5 227	51	145	6	40.1	27.5	78.0	92.2	2.7	0.1	—
Plumbers, pipefitters, and steamfitters	887	881	6	875	6	153	40	32.5	36.5	53.6	46.6	4.1	4.0	10.2
Other construction trades	1 233	1 184	49	1 045	165	27	—	41.7	25.5	67.6	77.6	0.6	0.2	—
Other construction trades	8 427	7 917	510	6 221	454	913	42	33.2	33.7	55.2	57.5	2.6	4.7	12.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Stone, clay, glass, and concrete products											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male						
Precision production, craft, and repair occupations—Con.												
Extrusion occupations	477	458	19	379	11	39	58	—	36.1	30.9	56.3	73.7
Precision production occupations	67 623	62 121	5 502	56 865	4 769	3 374	3 416	536	42.2	38.4	69.5	63.8
Supervisors, production occupations	42 747	40 924	2 823	37 659	2 628	2 083	2 080	247	41.4	37.8	10.5	64.3
Precision metalworking occupations	12 623	12 016	607	10 984	503	692	613	77	39.8	35.8	70.1	71.8
Food and kindred workers	1 517	1 489	28	1 360	86	85	66	6	41.2	25	1.7	1.4
Machinists	9 738	9 331	407	8 488	349	555	507	67	39.2	34.9	70.6	58.0
Sheet metal workers	450	450	—	427	—	23	5	—	44.1	31.2	63.8	69.2
Other precision metal workers	918	746	172	709	126	29	35	4	42.8	34.5	47	4.7
Precision textile, apparel, and furnishings machine workers	181	94	87	36	62	58	26	44	39.0	33.2	72.3	11.5
Precision food production occupations	141	118	23	88	16	18	26	—	39.4	37.3	39.3	91.3
Precision inspectors, testers, and related workers	295	174	121	167	38	57	37	9	43.2	49.6	71.3	74.4
Plant and system operators	2 444	2 375	69	2 622	62	167	600	—	43.2	49.6	67.4	53.6
Other precision production occupations	8 192	6 520	1 672	5 769	1 440	356	117	159	33.9	32.9	58.4	65.8
Operators, fabricators, and laborers	339 591	258 524	81 067	211 194	66 533	32 731	23 784	6 196	34.1	37.2	55.2	55.5
Machine operators, assemblers, and inspectors	197 945	136 480	61 465	111 539	50 940	16 777	13 247	4 761	33.9	37.8	2.4	2.8
Machine operators, and tenders, except precision	124 548	97 041	27 507	78 931	22 499	12 483	9 284	2 605	34.0	36.3	55.9	53.2
Metalworking and plastic working machine operators	10 797	7 767	3 030	6 569	2 627	783	713	185	34.5	37.7	55.5	51.6
Fabricating machine operators, n.e.c.	407	325	82	317	56	—	38	—	31.2	42.3	62.5	63.4
Metal and plastic processing and woodworking machine operators	9 096	7 000	2 096	5 895	1 788	801	502	120	34.2	35.3	57.3	59.9
Printing machine operators	647	353	294	307	235	28	35	44	35.8	39.2	67.4	66.0
Textile machine operators	1 118	696	422	564	312	89	25	17	30.8	34.5	59.1	41.2
Textile sewing machine operators	1 744	1 182	562	1 359	426	19	34	90	33.1	40.7	48.4	40.2
Laundry and dry cleaning machine operators	17	17	—	11	6	—	—	—	36.5	—	64.7	—
Packaging and filling machine operators	2 064	1 198	866	757	220	99	119	95	30.9	38.0	54.9	51.5
Furniture, kin, and other operators, except food	8 427	8 198	429	7 747	389	25	509	30	38.8	34.1	59.0	58.1
Other specified machine operators	30 964	25 255	5 709	21 048	4 845	2 757	2 496	540	33.1	35.3	56.2	52.4
Miscellaneous and not specified machine operators	60 067	46 050	14 017	36 028	11 064	7 025	4 793	1 484	34.0	36.3	54.8	53.1
Fabricators, assemblers, and hand working occupations	43 548	29 394	14 154	24 129	11 661	3 244	3 184	1 172	33.0	35.7	58.1	58.3
Welders and cutters	8 133	7 887	246	6 709	165	620	881	26	34.6	33.2	54.8	55.9
Solders and brazers	403	380	23	357	155	7	13	—	34.6	33.2	68.5	64.3
Assemblers	22 674	13 380	9 298	10 581	7 334	1 809	1 498	897	31.5	35.3	60.4	53.3
Hand working occupations	12 334	7 962	4 372	6 702	4 007	808	792	242	33.8	36.6	57.4	70.3
Production inspectors, testers, samplers, and weighers	29 849	10 045	19 804	8 479	16 780	1 050	779	984	35.5	41.1	67.8	57.8
Graders and sorters, except agricultural	1 753	765	988	570	805	132	101	49	33.0	38.7	50.6	57.1
Other production inspectors, testers, samplers, and weighers	28 096	9 280	18 816	7 909	15 975	918	678	935	35.8	41.2	69.2	57.8
Transportation and material moving occupations	70 324	48 590	1 734	57 019	1 458	8 474	5 182	114	37.4	31.6	50.2	63.3
Transportation occupations	42 247	41 863	384	35 138	324	5 031	2 874	10	38.2	32.1	49.9	65.4
Motor vehicle operators	41 863	41 497	370	34 810	310	5 014	2 871	10	38.2	32.1	49.9	65.4
Truck drivers	41 350	41 041	309	34 678	263	4 916	2 829	10	38.2	32.4	49.7	67.3
Other vehicle operators	90	74	16	67	2	7	—	—	41.7	25	60.8	100.0
Other material moving occupations	28 077	26 727	1 350	21 881	1 34	3 443	2 308	104	41.3	34.3	63.9	28.9
Ball and roller transportation occupations	380	366	14	328	14	17	42	—	41.3	32.8	47.5	52.5
Material moving equipment operators	28 077	26 727	1 350	21 881	1 34	3 443	2 308	104	41.3	34.3	63.9	28.9
Supervisors, material moving equipment operators	154	150	4	131	4	13	6	—	35.8	31.4	50.6	62.7
Cranes, hoists, and winch operators	2 624	2 552	72	2 120	67	341	185	8	34.2	40.0	88.7	100.0
Excavating, grading, and dozer machine operators	1 721	1 697	24	1 444	18	189	96	—	39.0	29.5	50.0	68.1
Other material moving equipment operators	23 578	22 328	1 250	18 186	1 045	2 900	2 021	96	34.9	31.5	45.3	66.7
Handlers, equipment cleaners, helpers, and laborers	71 322	53 454	17 868	42 636	14 135	7 480	5 355	1 321	31.3	36.0	56.4	53.6
Supervisors, handlers, equipment cleaners, and laborers	91	89	2	68	2	21	—	—	45.7	30.0	73.0	100.0
n.e.c.	2 024	1 826	198	1 458	170	220	254	—	30.2	38.9	54.5	50.0
Construction laborers	2 059	2 059	89	1 610	61	302	256	5	32.5	37.0	52.5	34.8
Freight, stock, and material handlers	13 254	11 924	1 330	9 739	1 097	1 646	857	75	30.0	33.1	56.0	52.3
Grocery and service station occupations, and equipment cleaners	1 324	1 079	245	843	220	142	102	6	33.8	36.9	56.1	49.0
Hand packers and packagers	19 391	8 043	11 348	6 400	8 869	1 114	843	774	30.4	37.7	62.7	53.8
Laborers, except construction	33 090	28 434	4 656	22 518	3 716	4 035	3 043	461	31.2	33.2	55.1	54.3
Persons of Spanish origin may be of any race.												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Primary iron and steel industries															
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		Black												
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	886 687	796 449	90 238	661 691	74 857	107 902	12 896	48 025	3 963	39.4	34.5	79.7	8.0	0.3	0.3
Managerial and professional specialty occupations	67 668	60 814	6 854	58 157	6 315	1 678	413	1 129	107	43.0	37.2	50.8	95.8	1.2	0.8
Executive, administrative, and managerial occupations	42 863	38 407	4 456	36 813	4 125	1 049	253	850	74	43.9	36.4	47.5	94.9	1.8	0.7
Officials and administrators, public administration	6	6	—	—	—	—	—	—	—	50.0	—	—	—	—	—
Financial managers	1 885	1 667	218	1 664	208	3	7	12	6	40.8	37.0	74.1	94.5	—	—
Managers, marketing, advertising, and public relations	3 447	3 301	146	3 283	140	—	—	17	6	44.9	31.5	58.9	99.0	0.4	—
Administrators, education and related fields	50	45	5	—	—	—	—	—	—	34.4	40.0	48.9	100.0	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, other	2 004	1 750	254	1 607	243	133	3	23	—	42.8	33.2	57.9	100.0	0.1	—
Other specified managers	22 496	20 986	1 510	20 130	1 409	456	85	557	34	45.7	41.0	42.3	91.3	3.0	2.0
Managers and administrators, n.e.c.	21 829	20 349	1 480	19 531	1 383	448	85	515	16	45.6	40.8	42.8	92.8	98.3	100.0
Self-employed	667	637	30	599	26	8	—	42	18	49.9	50.0	26.7	—	—	—
Management related occupations	12 975	10 452	2 523	10 078	2 120	457	158	241	34	40.6	34.1	48.2	94.5	0.4	—
Accountants and auditors	5 899	4 717	1 182	4 472	1 089	180	62	80	23	38.4	33.0	62.9	98.3	0.5	—
Personnel, training, and labor relations specialists	2 786	2 416	372	2 536	372	206	36	94	23	43.0	36.2	34.3	94.0	0.1	—
Buyers and purchasing agents	2 407	1 890	517	1 865	475	25	36	46	11	40.6	38.0	39.2	97.9	0.4	—
Inspectors and compliance officers	369	316	53	304	53	12	—	14	—	42.6	31.8	83.2	100.0	—	—
Other management related occupations	1 098	943	155	901	131	34	24	7	—	41.5	31.0	45.6	100.0	1.3	—
Professional specialty occupations	24 805	22 407	2 398	21 344	2 190	629	160	279	33	41.1	39.1	56.6	97.5	0.3	1.1
Engineers, architects, and surveyors	17 527	16 879	648	16 153	599	400	82	200	4	41.3	29.7	59.0	97.9	0.2	—
Architects	32	32	—	—	—	—	—	—	—	45.0	—	56.3	—	—	—
Engineers	17 467	16 819	648	16 098	599	395	82	200	4	41.3	29.7	59.1	97.9	0.2	—
Civil engineers	1 061	1 042	19	1 044	6	28	—	10	—	45.8	25	70.4	100.0	—	—
Electrical and electronic engineers	1 096	1 085	11	1 044	6	28	—	10	—	36.8	25	54.5	100.0	—	—
Industrial engineers	5 119	4 818	301	4 682	250	98	33	53	32.7	39.8	32.7	54.0	96.0	0.2	—
Mechanical engineers	2 174	2 163	11	2 075	11	56	—	14	—	43.7	30.0	55.2	97.1	0.1	—
Other engineers	8 017	7 711	306	7 303	243	183	49	96	4	41.8	27.1	63.3	93.5	0.3	—
Surveyors and mapping scientists	28	28	—	—	—	—	—	—	—	41.7	—	60.7	—	—	—
Computer systems analysts and scientists	1 111	1 029	82	968	77	56	5	—	—	36.6	28.7	58.8	100.0	0.6	7.3
Operations and systems researchers and analysts	708	657	51	647	51	4	—	6	—	38.6	23	44.1	100.0	0.3	—
Mathematical scientists	1 98	1 33	65	1 110	65	15	—	16	—	47.3	38.8	43.2	100.0	—	—
Natural scientists	1 863	1 711	152	1 608	127	70	19	34	—	42.9	37.2	43.2	100.0	—	—
Chemists, except biochemists	1 720	1 584	136	1 495	111	70	19	21	—	42.8	41.0	39.7	100.0	—	—
Other natural scientists	143	127	16	113	16	—	—	13	—	45.2	25	87.4	100.0	—	—
Health diagnosing occupations	1 190	1 029	161	966	109	—	—	6	—	57.2	50.3	23.5	99.1	10.1	1.9
Health assessment and treating occupations	1 103	1 029	74	968	109	—	—	6	—	57.2	50.3	23.5	99.1	10.1	1.9
Registered nurses	87	74	13	68	13	6	—	—	—	35.0	50.4	24.3	100.0	—	2.0
Other health assessment and treating occupations	186	179	7	158	7	19	—	9	—	43.7	30.0	25.7	100.0	—	—
Teachers, except postsecondary	322	234	88	213	69	—	—	—	—	46.2	29.3	78.2	100.0	—	—
Social scientists and urban planners	25	25	—	—	—	—	—	—	—	25.7	—	40.0	—	—	—
Lawyers and judges	316	275	41	275	41	—	—	—	—	36.0	30.2	98.5	100.0	1.0	—
Writers, artists, entertainers, and athletes	1 141	1 019	122	947	115	59	7	8	—	41.5	34.5	35.4	89.3	—	—
Other professional specialty occupations	89	35	54	35	49	—	—	—	—	42.5	31.5	34.3	90.7	—	—
Technical, sales, and administrative support occupations	119 240	72 634	46 606	66 274	42 505	4 948	3 189	2 286	1 509	40.6	34.4	17.0	91.6	0.5	0.2
Technicians and related support occupations	18 654	16 612	2 042	15 295	1 738	908	273	477	56	36.7	32.0	16.9	92.5	0.3	—
Health technicians and technicians	386	282	104	269	72	13	32	—	—	30.8	27.5	37.2	85.6	2.1	—
Licensed practical nurses	98	29	69	29	49	—	—	—	—	23	42.8	—	87.0	20.7	—
Other health technicians and technicians	288	253	35	240	23	13	12	—	—	31.6	35.4	41.5	82.9	—	—
Engineering and science technicians	14 797	13 515	1 282	12 408	1 039	782	228	409	56	37.0	33.3	12.1	88.8	0.2	—
Electrical and electronic technicians	1 089	1 041	48	927	42	90	6	22	—	34.3	32.9	95.3	100.0	—	—
Mechanical and mechanical engineering technicians	4 432	3 998	434	3 511	242	139	24	134	—	39.5	35.0	20.1	72.4	—	—
Drafting and surveying technicians	8 823	7 869	954	7 152	747	329	192	205	56	34.4	25	7.8	100.0	0.6	—
Other engineering and science technicians	3 471	2 815	656	2 618	627	113	13	68	—	39.1	34.5	14.0	86.6	0.1	—
Technicians, except health, engineering, and science	59	40	19	40	11	—	—	—	—	36.7	29.8	37.9	97.5	0.5	—
Airplane pilots and navigators	2 052	1 566	486	1 484	142	—	—	—	—	42.7	23	38.5	100.0	—	—
Air traffic controllers and broadcast equipment operators	—	—	—	—	—	—	—	—	—	46.2	30.7	20.0	100.0	1.0	—
Computer programmers	—	—	—	—	—	—	—	—	—	34.1	29.9	44.1	99.0	—	—
Other technicians, except health, engineering, and science	1 190	1 048	142	933	142	63	—	23	—	40.8	29.6	29.4	98.8	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 (Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States

Primary iron and steel industries

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Sales occupations
 Supervisors and proprietors, sales occupations
 Self-employed
 Sales representatives, finance and business services
 Sales representatives, commodities, except retail
 Sales workers, retail and personal services
 Cashiers
 Other sales occupations, retail and personal services
 Sales related occupations

Administrative support occupations, including clerical
 Supervisors, administrative support occupations
 Computer equipment operators
 Secretaries, stenographers, and typists
 Stenographers and typists
 Receptionists
 Other information clerks
 File clerks
 Other records processing occupations, except financial
 Bookkeepers, accounting, and auditing clerks
 Payroll and timekeeping clerks
 Other financial records processing occupations
 Telephone operators
 Mail and message distributing occupations
 Production coordinators and expeditors
 Traffic, shipping, and receiving clerks
 Stock and inventory clerks
 Other material recording, scheduling, and distributing clerks
 Adjusters and investigators
 Date-entry keyers
 Other administrative support occupations

Service occupations
 Private household occupations
 Protective service occupations
 Guards
 Other protective service occupations
 Service occupations, except protective and household
 Food preparation and service occupations
 Health service occupations
 Cleaning and building service occupations, except household
 Personal service occupations

Farming, forestry, and fishing occupations

Precision production, craft, and repair occupations
 Mechanics and mechanics and repairers
 Supervisors, mechanics and repairers
 Automobile mechanics, including body
 Industrial machinery repairers
 Electronic repairers, communications and industrial equipment
 Heating, air conditioning, and refrigeration mechanics
 Other mechanics and repairers

Construction trades
 Supervisors, construction occupations
 Carpenters
 Electricians
 Painters, construction and maintenance
 Plumbers, pipefitters, and steamfitters
 Other construction trades

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¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																
Primary iron and steel industries																
Both sexes		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
		Total		White												Black
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations																
Precision production occupations																
Supervisors, production occupations																
Precision metalworking occupations																
Tool and die makers																
Machinists																
Sheet metal workers																
Other precision metal workers																
Precision textile, apparel, and furnishings machine workers																
Precision food production occupations																
Precision inspectors, testers, and related workers																
Plant and system operators																
Other precision production occupations																
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors																
Machine operators and tenders, except precision																
Metalworking and plastic working machine operators																
Fabricating machine operators, n.e.c.																
Metal and plastic processing and woodworking machine operators																
Printing machine operators																
Textile machine operators																
Textile sewing machine operators																
Laundry and dry cleaning machine operators																
Packaging and filling machine operators																
Furnace, lab., and oven operators, except food																
Other specified machine operators																
Miscellaneous and not specified machine operators																
Fabricators, assemblers, and hand working occupations																
Welders and cutters																
Solders and brazers																
Assemblers																
Hand working occupations																
Production inspectors, testers, samplers, and weighers																
Graders and sorters, except agricultural																
Other production inspectors, testers, samplers, and weighers																
Transportation and material moving occupations																
Transportation occupations																
Motor vehicle operators																
Truck drivers																
Driver-sales workers																
Other motor vehicle operators																
Rail and water transportation occupations																
Material moving occupations																
Supervisors, material moving equipment operators																
Crane, hoist and winch operators																
Excavating, grading, and dozer machine operators																
Other material moving equipment operators																
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																
Helpers, craft and production																
Construction laborers																
Freight, stock, and material handlers																
Garage and service station occupations, and equipment cleaners																
Head packers and packagers																
Laborers, except construction																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States																					
Primary nonferrous industries																					
Employed persons 16 years and over																					
Total				White				Black		Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes	Male	Female		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
421 081	341 176	79 905	295 948	69 350	7 706	30 440	7 706	26 314	4 374	38.1	35.9	69.0	72.1	10.6	5.0	0.4	0.3				
47 052	40 845	6 207	38 846	5 912	209	846	209	962	153	42.4	34.9	94.5	93.8	53.2	26.5	1.4	0.9				
31 611	27 190	4 421	26 048	4 250	121	524	121	613	111	43.7	35.5	93.0	93.6	49.4	21.6	1.8	1.3				
1 487	1 308	179	1 249	169	—	21	—	54	11	41.1	39.0	98.3	97.2	100.0	31.3	0.5	—				
2 827	2 615	212	2 581	212	—	12	—	23	9	44.7	36.4	97.2	89.2	62.9	17.9	0.5	—				
31	16	15	16	15	—	—	—	—	—	36.1	25	100.0	66.7	100.0	—	—	—				
1 558	1 197	361	1 159	347	6	31	6	13	25	43.1	35.2	96.2	97.2	58.6	21.3	—	—				
17 539	16 027	1 512	15 486	1 449	52	185	52	326	33	45.5	39.1	90.9	93.1	44.3	14.7	2.7	1.9				
17 053	15 593	1 460	15 061	1 377	52	176	52	326	33	45.4	38.9	91.0	92.8	45.0	14.7	2.7	2.8				
17 486	15 434	52	15 425	52	—	9	—	326	33	49.3	41.9	85.5	100.0	22.1	17.3	100.0	82.7				
8 167	6 025	2 142	5 555	2 058	63	275	63	197	33	38.5	33.4	94.9	93.7	51.3	26.1	0.4	0.3				
3 952	2 869	1 083	2 694	1 053	24	85	24	94	9	36.0	30.8	99.6	96.2	67.5	38.1	0.4	—				
1 837	1 378	459	1 144	409	35	167	35	51	24	39.8	36.1	83.4	91.5	32.9	21.4	0.6	—				
1 803	1 344	459	1 298	455	4	115	4	46	—	41.3	36.4	95.4	89.5	33.0	8.3	0.6	—				
82	70	12	82	12	—	—	—	6	—	42.4	36.6	87.1	41.7	67.9	8.5	2.2	5.4				
493	384	129	349	129	—	8	—	—	—	41.7	36.6	96.7	95.3	67.9	8.5	2.2	5.4				
15 441	13 655	1 786	12 798	1 662	88	322	88	349	42	39.0	33.7	97.7	94.3	60.9	38.6	0.6	—				
10 946	10 333	513	9 780	477	26	191	26	238	6	39.3	28.1	98.0	91.8	62.3	43.3	0.6	—				
10 794	10 281	513	9 754	477	26	183	26	209	6	39.4	28.1	98.0	91.8	62.5	43.3	0.6	—				
202	195	7	170	7	—	11	—	6	—	41.4	30.0	96.9	100.0	74.9	—	—	—				
1 034	1 010	24	941	24	58	21	58	14	—	34.7	25	99.0	100.0	67.3	70.8	0.2	—				
2 796	2 566	230	2 510	221	6	21	6	40	—	39.7	30.3	97.8	94.3	49.3	21.3	0.2	—				
1 657	1 625	32	1 578	32	7	7	7	13	—	39.3	25	98.1	94.3	64.6	34.4	0.2	—				
5 105	4 885	220	4 555	193	20	86	20	116	6	40.2	27.2	97.8	90.0	67.3	45.9	1.0	—				
32	32	—	14	—	—	—	—	29	—	25	—	100.0	—	—	—	—	—				
560	470	90	443	90	14	14	—	5	—	37.1	29.9	98.9	100.0	62.3	44.4	—	—				
421	365	56	365	42	13	—	—	7	—	41.5	33.4	94.8	100.0	31.5	32.1	—	—				
94	79	15	62	15	8	—	—	—	—	45.5	44.2	100.0	100.0	39.2	53.3	—	—				
1 356	1 162	194	1 069	184	33	33	—	44	6	37.3	29.9	99.1	100.0	71.3	71.1	0.5	—				
1 156	984	172	899	162	33	36	—	36	6	37.7	30.2	98.9	100.0	69.0	70.9	0.6	—				
200	178	22	170	22	—	—	—	8	—	35.3	25.0	100.0	100.0	83.7	72.7	—	—				
35	35	—	23	—	5	—	—	7	—	50.0	—	100.0	—	80.0	—	—	—				
530	19	511	13	494	6	6	17	23	—	47.1	47.2	100.0	95.3	36.8	15.3	—	—				
502	12	490	6	473	6	6	17	23	—	50.0	47.5	100.0	96.3	14.5	14.5	—	—				
28	7	21	7	21	—	—	—	—	—	40.0	32.0	100.0	71.4	100.0	33.3	—	—				
95	64	31	47	14	12	12	—	5	—	36.6	31.7	73.4	74.2	17.2	19.4	—	—				
336	274	62	259	62	—	—	—	—	—	46.9	45.6	96.7	100.0	82.5	37.1	—	—				
146	130	16	117	16	13	—	—	—	—	39.6	33.0	95.4	100.0	95.4	100.0	1.7	—				
933	688	245	598	222	15	26	15	43	7	34.1	32.2	93.9	91.8	30.1	47.8	—	—				
89	36	53	22	45	14	14	—	—	—	33.2	36.1	100.0	86.8	—	43.4	—	—				
61 718	31 746	29 972	28 998	27 876	1 487	842	1 487	1 427	995	38.7	34.7	84.7	90.5	20.4	5.5	0.8	0.3				
10 117	8 480	1 437	7 671	1 502	89	476	89	309	95	35.1	32.1	92.5	84.7	20.6	17.6	0.5	—				
136	119	17	115	9	—	—	—	12	—	43.0	43.5	84.9	100.0	61.3	—	—	—				
16	7	9	7	8	—	—	—	—	—	60.0	48.6	100.0	100.0	100.0	—	—	—				
120	112	8	108	8	—	—	—	12	—	41.7	40.0	83.9	100.0	58.9	—	—	—				
7 602	6 529	1 073	5 874	986	66	400	66	266	60	35.3	33.3	92.7	80.4	17.0	10.9	0.1	—				
634	605	29	540	29	42	42	—	50	—	34.0	29.6	96.4	75.9	29.6	24.1	—	—				
146	138	8	118	8	14	14	—	8	—	40.7	25	92.8	100.0	43.5	—	—	—				
1 894	1 734	160	1 625	147	63	63	7	31	6	43.3	34.2	94.3	96.3	9.3	18.1	—	—				
4 928	4 052	876	3 591	802	59	281	59	177	54	36.1	34.2	91.5	77.5	19.3	9.2	0.1	—				
2 379	1 832	547	1 682	499	23	76	23	31	35	34.4	30.6	92.3	92.7	30.6	31.3	2.1	—				
36	36	—	36	—	—	—	—	—	—	40.0	—	83.3	—	47.2	—	—	—				
17	13	4	13	4	—	—	—	—	—	33.1	40.0	100.0	—	38.5	—	—	—				
1 030	723	307	646	275	14	37	14	12	18	32.1	40.0	98.9	100.0	94.8	36.8	1.0	—				
1 296	1 060	236	987	220	9	39	9	19	17	38.3	32.8	88.0	89.8	19.7	24.6	2.9	—				

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States																
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations																
Salaried																
Self-employed																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Secretaries																
Stenographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adapters and investigators																
Data-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Guards																
Other protective service occupations																
Food preparation and service occupations																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automobile mechanics, including body																
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Electricians																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																
Other construction trades																
Total																
Both sexes																
Male																
Female																
Race																
White																
Male																
Female																
Black																
Male																
Female																
Spanish origin ¹																
Male																
Female																
Median age																
Male																
Female																
Percent high school graduates																
Male																
Female																
Percent completed 4 or more years of college																
Male																
Female																
Percent self-employed																
Male																
Female																

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Primary nonferrous industries			
	Race													
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Both sexes	Male	Female	Male	Female	Male	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.														
Extrusive occupations	268	239	29	195	27	3 477	61	3 464	37.5	30.3	75.7	62.1	10.5	—
Precision production occupations	54 590	51 276	3 312	45 963	2 779	3 477	3 464	305	41.2	38.7	71.4	62.7	7.6	5.4
Supervisors, production occupations	31 692	30 078	1 616	27 290	1 111	1 923	1 802	143	39.6	37.0	73.9	62.7	11.0	9.0
Precision metalworking occupations	14 027	15 419	608	13 918	47	903	916	79	37.6	35.2	72.6	57.2	2.0	1.8
Tool and die makers	5 292	5 149	143	4 206	12	161	180	31	38.7	37.0	74.3	53.1	2.2	7.7
Mechanics	8 577	8 294	283	7 231	205	664	687	28	36.7	35.3	72.4	60.1	2.0	0.2
Sheet metal workers	1 899	1 599	32	1 121	32	47	108	20	42.0	42.8	66.7	59.4	1.8	—
Precision metal workers	1 369	1 309	4	1 34	5	31	8	—	42.3	42.8	70.0	55.3	2.4	1.5
Precision textile, apparel, and furnishings machine workers	143	104	—	67	—	25	31	—	41.7	25	82.1	100.0	—	—
Precision food production occupations	1 234	782	452	720	393	24	104	44	36.9	39.8	46.2	49.1	8.7	—
Precision inspectors, testers, and related workers	1 234	782	452	720	393	24	104	44	36.9	39.8	46.2	49.1	8.7	—
Plant and system operators	1 491	1 444	47	1 444	26	59	93	—	44.7	27.8	78.7	82.0	14.4	4.3
Other precision production occupations	3 999	3 414	585	2 570	467	543	510	39	36.0	40.3	42.6	45.1	1.3	2.6
Machine operators, assemblers, and inspectors	210 411	172 306	38 105	141 308	30 955	21 431	17 973	2 746	34.8	36.5	59.5	55.8	1.7	0.2
Machine operators and tenders, except precision	154 088	122 117	31 971	100 484	20 226	14 277	13 275	2 306	37.0	37.0	59.6	55.6	1.6	0.2
Metalworking and plastic working machine operators	118 947	100 091	18 856	82 209	13 295	12 138	10 900	1 306	34.8	36.6	58.4	54.1	1.2	0.2
Fabricating machine operators, n.e.c.	22 571	18 533	4 038	15 664	3 476	2 726	1 846	223	35.0	38.1	57.2	54.6	1.5	0.8
Metal and plastic processing and woodworking machine operators	1 867	1 395	472	1 187	415	123	149	31	35.0	39.8	57.6	40.9	1.0	—
Printing machine operators	13 408	11 994	1 414	9 968	1 212	1 340	1 253	33	33.6	38.9	54.4	54.7	1.0	1.9
Textile machine operators	496	433	143	296	120	50	17	—	34.8	32.7	62.3	64.3	2.5	4.2
Textile sewing machine operators	405	234	171	144	132	20	17	—	31.3	32.7	55.1	62.6	—	—
Laundry and dry cleaning machine operators	26	19	7	12	6	16	—	—	30.7	42.2	70.4	28.7	3.2	—
Packaging and filling machine operators	231	170	61	140	7	—	7	—	25	25	36.8	100.0	—	—
Furnace, kiln, and oven operators, except food	15 809	15 299	510	12 504	359	2 120	1 629	57	33.6	26.4	50.0	68.9	1.2	—
Other specified machine operators	12 888	11 065	1 823	9 381	1 567	1 139	1 040	53	37.0	36.3	59.7	51.6	1.9	1.0
Miscellaneous and not specified machine operators	50 940	40 904	10 036	32 819	7 761	5 480	4 935	909	34.4	35.0	63.9	57.9	1.8	0.1
Fabricators, assemblers, and hand working occupations	22 312	14 282	8 030	11 602	1 085	1 620	1 791	712	33.7	35.6	61.6	58.3	2.0	0.6
Welders and cutters	8 190	7 550	640	6 514	519	632	777	42	35.7	35.6	62.2	48.8	1.9	1.1
Solders and brazers	13 254	6 287	6 967	4 725	5 549	943	972	646	37.7	34.4	68.1	50.4	—	—
Assemblers	476	329	147	271	132	25	38	17	31.5	35.8	60.3	59.4	2.2	0.5
Hand working occupations	12 829	7 744	5 085	6 673	4 460	699	584	289	34.3	32.9	69.9	63.3	4.0	—
Graders and sorters, except agricultural	214	123	91	78	84	34	9	—	36.6	40.6	72.1	56.9	3.3	1.7
Other production inspectors, testers, samplers, and weighers	12 615	7 621	4 994	6 595	4 376	665	575	289	30.1	46.0	62.6	30.8	—	—
Transportation and material moving occupations	25 055	23 837	1 218	19 448	978	3 394	1 978	78	36.8	40.5	72.2	57.4	3.4	1.7
Transportation occupations	6 915	6 739	176	5 629	148	858	1 978	78	38.3	31.8	56.7	67.9	1.9	0.6
Motor vehicle operators	6 430	6 271	159	5 228	131	833	547	23	40.0	32.9	57.0	63.6	1.9	0.7
Truck drivers	6 200	6 060	140	5 068	120	796	430	15	40.2	31.6	56.2	70.4	1.8	4.4
Other motor vehicle operators	35	31	4	23	4	—	8	—	25	50.0	67.7	100.0	1.9	5.0
Rail and water transportation occupations	185	180	15	137	7	37	13	8	49.7	30.8	51.1	100.0	—	6.5
Material moving equipment operators	485	468	17	401	17	25	96	—	37.1	40.0	68.8	—	3.6	—
Open pit, heap, and windrow equipment operators	18 480	17 098	1 042	13 819	890	2 536	1 431	55	37.6	31.7	56.6	68.6	1.9	—
Conveying, grading, and dozer machine operators	6 391	6 157	234	5 700	202	718	438	6	44.9	30.0	91.6	100.0	30.5	—
Other material moving equipment operators	262	256	6	228	19	6	438	4	39.7	31.8	58.0	77.8	1.2	—
Handers, equipment cleaners, helpers, and laborers	11 390	10 590	800	8 332	626	1 713	977	51	36.2	31.6	68.4	100.0	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	31 268	26 352	4 916	21 376	3 751	3 580	2 790	381	32.5	34.7	61.6	54.2	1.9	0.2
Helpers, craft and production	26	26	—	16	—	—	—	—	38.9	—	88.5	—	15.4	—
Construction laborers	3 577	3 308	269	2 720	197	448	283	12	33.3	32.5	66.1	66.5	1.0	—
Freight, stock, and material handlers	9 816	8 601	1 215	7 136	968	1 044	778	51	30.7	34.1	63.5	100.0	—	—
Garage and service station occupations, and equipment cleaners	609	438	171	385	118	42	49	—	31.8	33.6	55.9	62.0	1.4	—
Hand packers and packagers	4 467	2 629	1 838	2 143	1 427	270	320	164	36.0	37.3	53.4	47.9	3.5	0.2
Laborers, except construction	12 349	10 928	1 421	8 639	1 039	1 684	1 256	134	32.3	32.4	59.8	58.3	2.0	0.2

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Fabricated metal industries																
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male	Female	Male											Female
Employed persons 16 years and over	1 424 362	1 107 481	316 881	973 766	276 233	82 935	27 353	81 138	20 727	36.7	36.6	67.9	68.9	10.0	4.0	1.2	0.5
Managerial and professional specialty occupations	174 536	153 068	21 468	147 515	20 162	2 165	703	3 057	635	42.6	37.1	92.8	94.0	44.2	21.7	3.1	1.8
Executive, administrative, and managerial occupations	130 152	112 576	17 576	109 392	16 575	1 459	532	2 405	510	43.4	37.6	91.2	93.8	40.7	18.3	3.8	1.9
Officials and administrators, public administration	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	4 779	3 885	894	3 780	852	45	25	64	24	39.8	38.3	98.2	95.5	72.4	20.8	0.5	0.6
Managers, marketing, advertising, and public relations	12 200	11 257	943	11 133	898	52	28	106	17	43.3	34.3	96.9	96.6	48.9	20.4	0.7	1.3
Administrators, education and related fields	98	93	5	93	3	—	—	—	—	48.4	33.3	84.9	60.0	57.0	—	6.5	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	6 274	5 214	1 060	5 036	1 007	127	17	132	54	42.0	39.8	94.5	96.3	50.7	15.9	2.0	0.7
Managers and administrators, n.e.c.	79 030	71 952	7 078	70 032	6 748	778	156	1 676	208	44.6	41.1	89.7	92.1	37.3	13.2	5.4	4.0
Salaries	74 724	68 010	6 714	66 199	6 393	755	147	1 523	201	44.6	40.8	89.7	92.1	37.3	13.2	—	—
Self-employed	4 306	3 942	364	3 853	355	23	9	153	7	44.9	46.1	76.9	85.2	14.9	18.7	98.4	77.7
Management related occupations	27 764	20 175	7 589	19 298	7 060	457	306	427	207	39.3	34.2	93.7	94.9	44.0	22.6	0.9	0.4
Accountants and auditors	12 102	8 428	3 674	7 994	3 336	186	164	149	84	36.1	32.7	98.7	96.7	62.0	31.8	0.5	0.4
Personnel, training, and labor relations specialists	4 684	3 400	1 284	3 142	1 214	172	64	120	48	39.9	35.9	80.7	90.6	24.3	19.2	1.2	—
Buyers and purchasing agents	8 655	6 437	2 218	6 297	2 125	59	59	121	67	41.1	35.7	95.7	95.0	31.4	9.2	0.6	0.5
Inspectors and compliance officers	1 452	405	47	379	40	26	7	6	—	48.1	48.0	60.7	85.1	10.4	—	—	—
Other management related occupations	1 871	1 505	366	1 486	345	14	17	31	8	44.4	37.4	95.5	92.9	50.1	25.4	4.2	1.4
Professional specialty occupations	44 384	40 492	3 892	38 123	3 587	706	171	652	125	40.2	34.6	97.4	94.9	54.1	37.2	1.1	1.2
Engineers, architects, and surveyors	33 343	32 106	1 237	30 211	1 118	534	71	473	46	40.6	31.2	97.9	95.0	55.0	36.5	0.8	—
Architects	97	90	7	90	—	—	—	—	—	37.7	30.0	100.0	100.0	63.3	100.0	—	—
Engineers	33 236	32 006	1 230	30 111	1 118	534	71	473	46	40.6	31.2	97.9	95.0	55.0	36.2	0.8	—
Civil engineers	1 328	1 309	19	1 182	14	29	—	38	—	35.1	25	96.9	100.0	75.7	89.5	1.2	—
Electrical and electronic engineers	2 080	2 042	38	1 883	28	25	5	28	—	35.8	27.8	99.1	84.2	70.5	60.5	—	—
Industrial engineers	9 615	8 831	784	8 428	722	184	55	132	35	41.4	32.8	97.3	93.9	41.9	19.4	0.4	—
Mechanical engineers	13 710	13 531	179	12 746	1 663	222	4	154	5	41.0	29.0	98.2	100.0	54.5	60.9	1.2	—
Other engineers	6 503	6 293	210	5 872	191	74	7	121	6	41.1	29.0	98.1	96.2	65.1	68.6	0.9	—
Surveyors and mapping scientists	10	—	—	10	—	—	—	—	—	35.0	—	100.0	—	—	—	—	—
Computer systems analysts and scientists	1 391	1 067	324	1 030	324	14	—	7	5	36.1	31.6	98.9	98.5	51.3	36.7	0.7	—
Operations and systems researchers and analysts	876	767	109	740	109	—	—	12	—	38.6	41.5	97.0	94.5	56.1	30.3	0.7	—
Mathematical scientists	1 977	1 726	251	1 712	266	43	—	52	7	38.6	47.5	98.4	100.0	78.6	25.4	—	—
Natural scientists	1 538	1 340	218	1 176	200	43	—	52	7	38.6	32.4	98.5	96.8	75.5	66.1	—	—
Chemists, except biochemists	1 212	1 032	180	888	173	43	—	43	5	36.3	33.4	98.3	96.1	77.3	71.1	—	—
Other natural scientists	346	308	38	288	27	—	—	9	2	43.3	26.5	99.4	100.0	69.5	42.1	—	—
Health diagnosing occupations	64	47	17	47	—	—	—	—	—	61.7	26.5	100.0	100.0	100.0	—	12.8	—
Health assessment and treating occupations	989	70	919	70	850	—	—	12	—	35.0	48.3	91.4	98.5	51.4	24.3	—	1.0
Registered nurses	969	57	912	57	843	—	—	12	—	33.1	48.5	100.0	98.5	63.2	23.7	—	1.0
Other health assessment and treating occupations	20	13	7	13	7	—	—	—	—	44.3	30.0	53.8	100.0	—	100.0	—	—
Teachers, except postsecondary	281	219	62	195	62	24	—	7	—	44.5	38.6	74.4	100.0	16.0	38.7	5.5	14.5
Social scientists and urban planners	988	793	195	769	180	7	—	4	—	38.3	30.6	98.6	85.1	73.3	70.8	—	—
Social and recreation workers	43	23	20	23	15	—	—	—	—	50.9	29.4	91.3	100.0	34.8	25.0	—	—
Lawyers and judges	428	365	63	365	59	—	—	11	—	38.1	31.8	100.0	100.0	96.7	88.9	1.6	7.9
Writers, artists, entertainers, and athletes	4 010	3 445	565	3 261	519	77	22	81	34	40.0	32.8	94.0	91.5	30.5	35.6	3.6	3.9
Other professional specialty occupations	216	124	92	124	78	—	—	9	—	43.0	35.7	70.2	70.7	42.7	37.0	—	—
Technical, sales, and administrative support occupations	238 533	118 917	119 616	109 903	112 778	5 443	4 813	5 095	3 956	36.6	34.5	84.6	89.3	17.3	5.1	1.3	0.6
Technicians and related support occupations	36 039	31 880	4 159	29 827	3 675	926	314	985	121	33.7	31.7	92.3	89.8	15.0	15.3	0.6	0.3
Health technologists and technicians	155	144	11	144	125	—	—	6	—	39.3	32.6	95.2	96.5	36.6	6.3	3.1	—
Licensed practical nurses	155	144	11	144	125	—	—	6	—	39.3	32.6	95.2	96.5	36.6	6.3	3.1	—
Other health technologists and technicians	216	180	36	180	36	—	—	—	—	40.4	30.7	97.8	100.0	37.8	25.0	14.9	—
Engineering and science technicians	28 898	26 163	2 735	24 391	2 454	813	169	836	113	33.6	31.3	92.1	88.5	12.5	11.6	0.5	0.1
Electrical and electronic technicians	1 984	1 824	160	1 676	126	73	30	20	—	34.9	30.4	94.8	83.1	8.6	5.0	0.4	—
Industrial and mechanical engineering technicians	1 795	1 731	64	1 699	51	14	—	25	—	36.1	36.1	85.4	85.9	15.7	—	1.6	—
Drafting and surveying technicians	15 626	14 437	1 189	13 427	1 108	431	39	470	44	31.8	28.4	93.7	91.3	10.4	11.3	0.6	0.2
Other engineering and science technicians	10 493	9 171	1 322	8 589	1 169	295	87	321	69	36.4	33.5	89.7	86.8	16.4	13.2	0.2	—
Technicians, except health, engineering, and science	6 770	5 490	1 280	5 209	1 096	113	126	143	8	34.3	32.3	93.2	91.7	26.2	24.4	0.9	0.9
Airplane pilots and navigators	213	213	—	213	—	—	—	—	—	35.5	—	100.0	—	26.3	—	—	—
Air traffic controllers and broadcast equipment operators	52	52	—	52	—	—	—	—	—	40.0	—	100.0	—	44.2	—	—	—
Computer programmers	3 372	2 471	901	2 355	805	46	65	52	2	32.4	31.0	97.8	94.3	36.7	26.0	0.5	0.6
Other technicians, except health, engineering, and science	3 133	2 754	379	2 589	291	67	61	91	6	37.5	38.3	88.3	85.5	16.4	20.6	1.4	1.8

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	United States										Fabricated metal industries									
	Race										Median age									
	White					Black					Spanish origin ¹					Percent high school graduates				
	Total	Male	Female	Male	Female	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes																				
Employed persons 14 years and over—Con.																				
Technical, sales, and administrative support occupations—Con.																				
Sales occupations	32 166	27 579	4 587	26 921	4 342	361	156	156	585	150	40.1	32.9	92.5	89.1	34.9	12.6	4.6	3.2	4.6	0.7
Supervisors and proprietors, sales occupations	2 181	1 910	271	1 844	352	8	8	8	66	18	43.0	35.2	88.2	89.7	24.1	15.9	8.8	—	8.8	—
Self-employed	1 994	1 732	262	1 844	248	34	34	34	66	18	42.8	35.2	89.0	90.4	20.2	16.4	—	—	—	—
Sales representatives, finance and business services	187	171	16	178	102	—	—	—	10	32	44.2	33.6	78.8	90.4	31.0	27.0	—	—	—	—
Sales representatives, commodities, except retail	229	113	115	113	9	—	—	—	483	32	41.0	32.6	93.2	92.8	36.0	27.0	—	—	—	—
Sales persons, retail and personal services	28 312	24 842	3 470	24 305	3 344	290	93	93	26	39	31.6	32.8	85.3	70.4	19.1	13.1	0.9	0.8	—	—
Other sales occupations, retail and personal services	1 312	93	631	326	255	37	32	32	21	9	33.8	36.6	69.9	70.1	19.4	1.3	1.0	1.5	—	—
Other sales occupations, except retail	921	588	333	550	255	12	12	12	21	9	38.1	42.5	87.8	70.6	19.0	3.3	—	—	—	—
Other sales occupations, except retail	133	33	100	33	100	23	23	23	21	9	38.1	42.5	87.8	70.6	19.0	3.3	—	—	—	—
Sales related occupations	170 328	110 870	59 458	104 141	55 155	4 156	4 343	4 343	3 525	3 685	36.8	34.7	76.7	89.3	10.4	4.4	0.2	0.5	—	—
Administrative support occupations, including clerical	1 448	8 424	3 224	7 800	3 037	390	156	156	3 525	3 685	40.6	34.7	76.7	89.3	10.4	4.4	0.2	0.5	—	—
Supervisors, administrative support occupations	1 448	8 424	3 224	7 800	3 037	390	156	156	3 525	3 685	40.6	34.7	76.7	89.3	10.4	4.4	0.2	0.5	—	—
Computer equipment operators	5 045	4 697	348	4 627	2 017	154	154	154	74	179	31.2	34.0	91.1	93.2	20.9	4.2	—	—	—	—
Secretaries, stenographers, and typists	43 405	42 708	697	585	40 799	84	84	84	43	84	38.2	32.7	90.5	93.7	20.5	4.5	—	—	—	—
Stenographers and typists	5 239	5 165	74	526	36 079	80	80	80	228	228	35.0	32.7	90.5	93.7	20.5	4.5	—	—	—	—
Receptionists	2 029	1 663	366	1 663	2 401	4	4	4	5	165	27.8	29.9	100.0	88.9	32.6	4.9	—	—	—	—
Other information clerks	3 331	2 835	496	2 835	2 401	20	20	20	6	19	34.3	32.3	83.2	91.9	22.5	3.8	—	—	—	—
File clerks	3 331	2 835	496	2 835	2 401	20	20	20	6	19	34.3	32.3	83.2	91.9	22.5	3.8	—	—	—	—
Other records processing occupations, except financial	19 462	2 000	17 462	1 888	16 767	79	79	79	73	354	40.5	38.9	95.5	91.5	27.9	5.4	0.9	1.2	—	—
Bookkeepers, accounting, and auditing clerks	4 569	2 926	1 643	3 449	3 141	58	58	58	43	98	46.0	38.5	86.3	86.9	11.9	3.0	—	—	—	—
Payroll and timekeeping clerks	2 915	607	2 308	581	1 727	122	122	122	14	67	35.0	37.0	86.8	92.5	13.3	4.2	—	—	—	—
Other financial records processing occupations	1 233	79	1 154	49	80	61	61	61	17	17	48.0	39.2	100.0	81.7	—	—	—	—	—	—
Telephone operators	1 233	79	1 154	49	80	61	61	61	17	17	48.0	39.2	100.0	81.7	—	—	—	—	—	—
Mail and message distributing occupations	11 283	7 530	3 753	7 025	3 369	104	104	104	44	45	32.7	30.6	67.0	80.1	3.4	4.0	—	—	—	—
Production coordinators and expeditors	13 113	9 306	3 807	13 949	3 183	345	345	345	261	180	37.3	33.1	81.8	86.1	12.7	4.6	—	—	—	—
Traffic, shipping, and receiving clerks	19 130	16 484	2 646	16 120	2 623	1 667	1 667	1 667	1 529	259	34.0	36.8	65.1	65.9	2.2	4.2	—	—	—	—
Stock and inventory clerks	1 484	1 028	456	899	535	60	60	60	55	43	41.0	37.1	70.9	73.2	4.4	3.1	—	—	—	—
Other material recording, scheduling, and distributing clerks	1 464	1 028	436	899	535	60	60	60	55	43	41.0	37.1	70.9	73.2	4.4	3.1	—	—	—	—
Quality control inspectors	4 408	1 69	2 709	1 56	1 143	13	13	13	25	45	37.0	34.9	92.1	92.7	20.5	6.3	—	—	—	—
Other administrative support occupations	16 777	4 935	11 842	4 448	10 938	299	299	299	17	183	36.6	35.7	84.0	86.3	16.1	5.0	—	—	—	—
Service occupations	28 444	24 758	3 686	20 861	2 929	2 920	619	619	1 652	1 533	46.1	46.3	46.3	49.2	2.0	1.4	0.3	1.8	—	—
Private household occupations	5 867	5 450	417	4 741	306	—	—	—	119	—	52.4	35.0	—	70.5	3.6	7.4	—	—	—	—
Protective service occupations	5 311	4 922	389	4 325	284	688	688	688	105	5	53.2	35.0	56.6	70.5	3.6	8.0	—	—	—	—
Guards	556	528	28	416	22	84	84	84	14	—	43.7	30.0	74.2	71.4	3.6	8.0	—	—	—	—
Other protective service occupations and household	22 577	19 308	3 269	16 120	2 623	2 290	525	525	1 533	148	43.6	47.1	44.4	44.5	0.7	—	—	—	—	—
Food preparation and related occupations	733	284	449	1 187	369	82	82	82	28	8	41.8	48.3	100.0	86.0	14.3	—	—	—	—	—
Health and sanitation occupations	144	102	42	144	136	—	—	—	1 505	140	41.8	46.8	43.1	43.0	1.4	0.6	—	—	—	—
Child and building service occupations, except household	21 496	18 902	2 594	15 836	2 063	2 191	416	416	—	—	42.1	46.8	43.1	43.0	1.4	0.6	—	—	—	—
Personal service occupations	16 184	108	76	83	55	17	17	17	—	—	35.5	45.0	34.3	51.3	8.3	9.2	—	—	—	—
Farming, forestry, and fishing occupations	538	479	59	419	53	24	6	6	80	—	31.8	32.4	48.0	64.4	2.5	—	—	—	—	—
Precision production, craft, and repair occupations	300 103	286 283	13 820	261 247	11 654	15 423	1 509	1 509	16 289	977	39.3	37.4	69.5	61.1	4.2	3.2	—	—	—	—
Mechanics and mechanics	51 141	49 769	1 372	45 245	1 077	3 009	237	237	2 444	98	39.2	37.4	64.7	59.6	2.0	3.2	—	—	—	—
Supervisors, mechanics and repairers	1 187	1 178	9	1 096	9	—	—	—	66	—	42.7	30.0	77.4	100.0	6.8	—	—	—	—	—
Industrial mechanics, including body	2 203	2 148	55	1 877	41	1 733	8	8	136	—	37.1	39.2	62.5	70.9	2.0	—	—	—	—	—
Industrial machinery repairers	21 437	21 194	243	19 636	187	1 051	49	49	892	14	39.3	33.7	63.6	82.3	1.5	—	—	—	—	—
Electronic repairers, communications and industrial equipment	705	701	4	618	4	35	—	—	62	—	34.9	25	85.2	100.0	3.9	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	1 053	1 026	27	932	16	76	11	11	49	—	35.6	52.2	71.4	100.0	3.4	25.9	—	—	—	—
Other mechanics and repairers	24 556	23 572	1 034	21 086	820	1 664	169	169	1 239	84	39.5	38.8	64.3	52.1	2.2	3.6	—	—	—	—
Construction trades	39 111	38 010	1 101	34 408	918	2 231	126	126	2 333	96	35.9	32.3	67.9	52.9	2.4	2.8	—	—	—	—
Supervisors, construction occupations	3 914	3 818	96	3 396	69	307	14	14	38	—	41.8	23.0	76.6	50.0	2.4	35.7	—	—	—	—
Carpenters	3 120	3 016	104	2 700	307	307	307	307	301	7	38.1	33.1	61.7	50.0	2.4	3.4	—	—	—	—
Electricians	8 979	8 839	140	8 229	140	384	384	384	301	140	39.6	33.3	79.8	61.4	2.7	6.4	—	—	—	—
Painters, construction and maintenance	3 136	2 889	247	2 151	223	451	19	19	257	16	30.9	31.1	48.6	52.2	1.2	1.6	—	—	—	—
Plumbers, pipefitters, and steamfitters	5 300	5 219	81	4 753	51	333	33	33	257	41	35.8	31.1	68.9	38.3	2.0	2.5	—	—	—	—
Other construction trades	16 562	16 039	523	14 704	421	752	79	79	1 048	32	34.1	32.9	65.4	53.7	2.2	2.5	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Employed persons 16 years and over—Con.																	
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.	292	277	15	195	146	63	10 120	33.2	25—	62.1	53.3	1.8	5.1	1.2	1.3	—	—
Extraction occupations	209 559	198 227	11 332	181 399	9 644	4 240	377	432	38.0	71.0	62.1	5.1	8.2	1.2	1.3	—	—
Precision production occupations	95 452	90 467	5 185	83 558	4 566	5 086	312	37.3	40.7	72.1	66.3	8.2	40.7	1.4	1.0	—	—
Supervisors, production occupations	103 107	99 246	3 861	93 479	3 172	8 538	39	258	35.7	70.1	57.9	2.2	2.2	1.6	2.7	—	—
Precision metalworking occupations	27 943	27 488	1 455	26 178	400	2 997	341	182	42.2	74.1	64.4	2.6	2.6	0.6	1.5	—	—
Tool and die makers	41 772	37 604	2 168	34 612	1 724	2 997	341	182	42.2	74.1	64.4	2.6	2.6	0.6	1.5	—	—
Machinists	23 936	23 471	1 463	22 008	1 463	2 997	341	182	42.2	74.1	64.4	2.6	2.6	0.6	1.5	—	—
Sheet metal workers	9 436	8 663	773	8 065	687	805	405	26	39.4	67.1	70.8	2.5	2.5	2.9	3.9	9.8	—
Other precision metal workers	313	291	209	246	179	25	14	9	37.2	74.0	61.7	8.7	8.7	20.2	4.3	—	—
Precision textile, apparel, and furnishings machine workers	2 433	2 291	132	2 165	1 165	142	78	49	42.4	44.7	66.7	—	—	5.2	—	—	—
Precision food production occupations	2 820	2 688	132	2 477	1 119	149	13	49	41.6	75.3	55.3	3.4	3.4	0.4	—	—	—
Precision inspectors, testers, and related workers	2 820	2 688	132	2 477	1 119	149	13	49	41.6	75.3	55.3	3.4	3.4	0.4	—	—	—
Plant and system operators	4 937	3 740	1 197	3 054	980	478	152	64	35.2	58.2	60.1	2.2	2.2	1.7	0.6	—	—
Other precision production occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Operators, fabricators, and laborers	682 208	523 976	158 232	433 821	19 703	56 960	19 703	33.1	37.8	57.1	51.2	1.8	0.9	0.6	0.2	—	—
Machine operators, assemblers, and inspectors	552 822	417 819	135 003	348 382	110 461	42 309	16 721	33.1	38.0	57.8	51.2	1.8	0.9	0.6	0.2	—	—
Machine operators and tenders, except precision	330 350	259 079	71 271	214 474	58 093	27 345	9 104	33.5	37.6	57.3	49.1	1.7	0.9	0.6	0.2	—	—
Metalworking and plastic working machine operators	118 554	95 823	22 731	82 726	19 570	8 226	2 153	34.1	38.6	57.3	47.6	1.7	0.8	0.7	0.3	—	—
Fabricating machine operators, n.e.c.	5 458	4 180	1 278	3 685	1 137	332	116	33.7	37.6	55.8	50.3	1.3	1.8	1.0	0.5	—	—
Metal and plastic processing and woodworking machine operators	29 834	26 476	3 358	21 467	2 841	2 912	372	32.3	34.3	54.2	52.4	2.2	0.9	0.9	0.7	—	—
Printing machine operators	3 076	2 460	616	2 240	553	155	29	40.3	37.3	73.1	71.6	3.3	2.9	1.1	—	—	—
Textile machine operators	1 089	728	201	521	194	6	7	37.2	37.2	49.3	52.2	1.3	3.0	0.8	—	—	—
Textile sewing machine operators	76	44	32	37	17	66	83	32	32.2	61.9	52.5	2.3	—	2.9	—	—	—
Laundry and dry cleaning machine operators	1 626	727	899	499	661	181	181	55.0	50.0	43.2	46.9	—	—	—	—	—	—
Packaging and filling machine operators	7 021	6 448	573	5 145	454	984	98	33.8	38.4	57.8	52.2	1.7	—	—	—	—	—
Furnace, tan, and oven operators, except food	33 118	28 069	5 049	23 380	4 165	2 951	984	35.3	34.7	53.7	54.8	1.5	1.9	0.2	—	—	—
Other specified machine operators	129 770	93 981	35 789	74 503	27 895	11 525	5 459	33.4	34.9	55.3	54.3	1.6	1.3	0.5	0.8	—	—
Miscellaneous and not specified machine operators	179 898	133 078	46 820	111 258	37 976	12 979	5 852	31.7	37.0	59.4	53.0	1.5	0.9	0.9	0.3	—	—
Fabricators, assemblers, and hand working occupations	88 701	83 396	5 305	70 872	4 293	7 263	714	31.5	35.4	60.4	58.8	1.2	1.2	1.0	0.1	—	—
Welders and cutters	1 115	510	605	387	478	49	100	32.3	36.2	35.1	59.7	1.6	—	1.0	0.2	—	—
Solders and brazers	87 916	47 597	40 319	38 691	32 709	5 473	4 931	32.0	37.2	58.2	52.3	2.0	0.9	0.8	0.3	—	—
Assemblers	2 166	1 575	591	1 308	496	1 94	83	32.8	36.7	50.4	43.1	1.6	—	0.8	1.2	—	—
Hand working occupations	42 574	25 662	16 912	22 650	14 392	1 985	1 806	38.8	42.6	70.7	56.9	4.2	0.8	0.1	0.1	—	—
Production inspectors, testers, samplers, and weighers	1 169	568	601	516	467	36	101	30.9	44.8	59.3	45.9	—	—	—	—	—	—
Graders and sorters, except agricultural	41 405	25 094	16 311	22 134	13 925	1 949	1 705	39.1	42.6	71.0	57.3	4.3	0.9	0.1	0.1	—	—
Other production inspectors, testers, samplers, and weighers	55 536	52 572	2 964	42 795	2 464	7 337	367	35.2	32.7	53.6	59.9	1.4	1.8	0.4	—	—	—
Transportation and material moving occupations	20 369	20 053	516	16 539	427	2 665	59	37.1	32.7	52.2	52.9	1.4	2.7	0.6	—	—	—
Transportation occupations	20 324	19 813	511	16 338	422	2 626	59	37.1	32.8	52.2	52.9	1.4	2.7	0.6	—	—	—
Motor vehicle operators	19 373	18 964	409	15 702	331	2 465	48	37.0	32.7	52.0	50.4	1.2	3.4	0.7	—	—	—
Truck drivers	222	203	19	184	19	8	18	39.1	32.3	66.5	31.6	6.9	—	1.0	—	—	—
Driver-sales workers	729	646	83	452	72	153	11	37.4	33.6	54.3	67.5	3.6	—	—	—	—	—
Other motor vehicle operators	245	240	5	201	39	133	6	44.6	25—	56.7	100.0	2.1	—	—	—	—	—
Rail and water transportation occupations	34 967	32 519	2 448	26 236	2 037	4 672	308	34.3	32.7	54.4	61.3	1.5	—	0.2	—	—	—
Material moving equipment operators	378	363	15	332	15	23	3	40.5	50.8	89.0	40.0	13.8	—	—	—	—	—
Supervisors, material moving equipment operators	7 921	7 665	256	5 946	207	1 403	34	36.3	29.6	51.0	60.9	1.1	—	0.8	—	—	—
Crane, hoist and winch operators	273	260	13	190	7	51	31	34.7	45.7	34.6	46.2	—	—	8.1	—	—	—
Excavating, grading, and dozer machine operators	24 231	21 641	2 164	19 788	1 809	3 195	267	33.7	32.9	55.2	61.6	1.5	1.7	0.2	—	—	—
Other material moving equipment operators	73 850	53 585	20 265	42 644	16 332	7 314	2 574	31.0	37.2	54.9	48.4	1.7	0.5	0.3	0.1	—	—
Handlers, equipment cleaners, helpers, and laborers	146	140	6	132	6	8	—	38.2	30.0	81.4	100.0	8.6	—	—	—	—	—
Supervisors, handlers, equipment cleaners, and laborers	6 697	6 046	651	4 737	541	844	77	27.9	34.0	57.1	49.2	1.3	—	0.1	0.9	—	—
n.e.c.	877	830	47	668	45	134	2	30.6	35.8	61.2	57.4	2.7	—	—	—	—	—
Construction laborers	11 730	9 157	2 573	7 752	2 084	992	333	31.3	36.4	57.3	49.3	1.5	0.7	0.1	0.1	—	—
Freight, stock, and material handlers	2 004	1 576	428	1 199	374	220	39	31.2	36.3	48.6	44.6	1.3	—	—	—	—	—
Garage and service station occupations, and equipment cleaners	15 407	6 214	9 193	4 996	7 594	673	1 045	32.0	39.0	57.5	47.5	1.6	0.5	—	—	—	—
Hand packers and packagers	36 989	29 622	7 367	23 160	5 688	4 443	1 078	31.2	35.7	53.1	49.3	1.9	0.6	0.5	0.1	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Machinery, except electrical																	
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male	Female	Male											Female
Employed persons 16 years and over	2 766 615	2 173 544	593 051	1 985 919	520 774	111 554	46 799	95 853	30 478	35.8	34.2	77.1	78.1	14.8	7.3	1.4	0.4
Managerial and professional specialty occupations	474 626	415 601	59 025	396 562	54 219	7 123	2 798	6 425	1 454	40.3	33.9	96.2	95.3	49.9	31.6	2.1	1.0
Executive, administrative, and managerial occupations	271 984	231 263	40 721	224 343	37 723	3 330	1 738	3 339	1 044	42.0	34.6	94.5	94.8	47.3	25.3	3.2	1.3
Officials and administrators, public administration	6	6	—	—	—	—	—	—	—	40.0	—	100.0	—	—	—	—	—
Financial managers	9 363	9 363	—	9 055	1 547	102	17	88	54	39.0	34.5	97.0	96.7	74.8	29.2	0.3	1.2
Managers, business, advertising, and public relations	29 311	27 467	1 844	27 121	1 769	126	31	304	18	42.0	27.8	97.6	96.3	55.2	32.9	3.5	0.3
Administrative, executive, and related fields	185	172	13	172	13	—	—	—	—	42.4	—	83.7	100.0	43.0	—	—	—
Managers, machine and health	12 627	10 204	2 423	9 762	2 276	303	93	188	102	—	35.0	95.3	96.3	56.4	30.9	—	0.3
Other skilled managers	153 717	138 647	15 070	134 875	14 097	1 576	636	1 996	403	41.4	38.0	92.8	92.0	42.5	21.5	0.4	2.8
Managers and administrators, n.e.c.	146 163	131 706	14 457	128 073	13 513	1 537	636	1 863	367	43.2	37.8	93.3	92.4	43.9	21.8	4.9	2.8
Self-employed	7 554	6 941	613	6 802	584	39	—	1 733	36	45.8	43.1	82.1	83.4	15.8	15.5	97.8	67.9
Management related occupations	65 147	45 404	19 743	43 352	18 021	1 223	961	763	467	37.6	32.9	96.6	96.4	49.6	26.4	0.6	0.4
Accountants and auditors	29 547	19 367	10 180	18 356	9 075	518	568	340	270	34.6	32.3	98.9	96.9	66.0	33.2	0.2	0.4
Personnel, training, and labor relations specialists	10 374	7 263	3 111	6 788	3 115	364	150	137	88	38.5	32.9	92.8	96.8	41.0	28.5	1.2	0.3
Buyers and purchasing agents	19 303	14 277	5 026	13 854	4 763	252	189	232	82	39.3	34.1	95.5	95.1	30.9	12.2	0.2	0.1
Inspectors and compliance officers	19 387	14 341	46	31	46	23	341	7	—	42.4	30.8	85.3	95.7	17.6	—	—	—
Other management related occupations	5 336	4 176	1 160	4 043	1 022	64	54	47	27	41.5	33.8	97.4	96.3	55.2	23.0	2.4	0.7
Professional specialty occupations	202 642	184 338	18 304	172 219	16 496	3 793	1 060	3 086	410	37.7	32.4	98.3	96.5	53.1	45.7	0.7	0.4
Engineers, architects, and surveyors	132 952	128 276	4 676	119 879	4 260	2 220	186	2 016	131	38.1	30.9	98.4	95.7	53.9	40.3	0.6	0.1
Engineers	132 952	128 276	4 676	119 879	4 260	2 220	186	2 016	131	36.7	27.5	100.0	100.0	75.5	100.0	0.1	—
Civil engineers	1 331	1 270	61	1 184	54	22	7	20	20	37.4	26.8	94.3	80.3	65.0	36.1	0.5	—
Electrical and electronic engineers	22 920	22 292	628	20 240	540	468	35	479	19	35.9	30.7	99.2	95.9	66.4	59.4	0.6	—
Industrial engineers	30 133	27 831	2 302	26 592	2 126	524	72	415	91	39.2	31.9	97.8	92.8	41.6	25.6	0.3	0.2
Mechanical engineers	59 524	58 389	1 135	54 575	1 054	876	32	811	21	38.7	29.4	98.5	97.6	54.7	57.7	0.7	—
Other engineers	18 788	18 247	541	17 072	477	315	40	283	—	37.6	30.3	98.6	97.4	54.1	43.6	0.8	—
Surveyors and mapping scientists	27	27	—	19	8	8	—	—	—	31.9	—	70.4	—	—	—	—	—
Computer systems analysts and scientists	26 705	22 785	3 920	20 825	3 284	750	331	459	99	35.1	31.0	98.7	97.1	57.6	56.4	0.5	—
Operations and systems researchers and analysts	4 603	3 781	822	3 444	743	120	41	45	13	38.5	33.0	98.2	96.7	41.4	35.0	0.8	—
Mathematical scientists	2 682	2 502	180	2 321	155	16	16	14	14	41.7	33.4	99.0	97.2	69.5	26.7	—	—
Natural scientists	2 626	2 158	468	1 931	251	124	17	48	21	37.1	29.5	98.5	91.9	69.2	59.8	2.0	2.6
Chemists, except biochemists	1 820	1 513	307	1 338	232	107	17	34	12	36.6	30.4	97.8	95.4	70.0	63.8	—	—
Other natural scientists	806	645	161	593	149	17	—	14	9	38.2	28.3	100.0	85.1	67.4	52.2	6.8	7.5
Health diagnosing occupations	145	122	23	114	15	2	—	12	—	54.7	54.3	100.0	87.0	86.9	87.0	9.0	0.4
Health assessment and treating occupations	2 075	153	1 922	1 486	833	82	—	—	—	38.6	46.4	100.0	98.7	34.0	18.9	—	0.4
Registered nurses	1 992	86	1 906	1 486	62	—	—	—	—	38.6	46.4	100.0	98.7	29.1	19.0	—	0.4
Other health assessment and treating occupations	83	67	16	62	2	—	—	—	—	38.6	37.5	100.0	100.0	40.3	—	—	—
Teachers, except postsecondary	3 284	2 791	493	2 626	423	80	54	68	10	36.5	34.1	94.1	92.5	33.2	47.1	1.4	—
Social scientists and urban planners	5 964	4 641	1 323	4 420	54	116	64	35	50	37.8	30.9	99.6	97.6	73.7	51.1	0.8	0.5
Social and recreation workers	118	64	54	126	64	—	—	—	—	30.0	32.8	89.1	100.0	34.4	88.9	—	—
Lower and judges	1 486	1 318	168	1 267	149	31	19	7	7	41.7	31.2	100.0	99.1	95.8	52.4	1.1	—
Writers, artists, entertainers, and athletes	20 852	17 210	3 642	16 423	3 392	312	202	382	41	38.4	32.1	96.9	95.8	34.9	52.4	1.8	0.8
Other professional specialty occupations	1 150	537	613	507	558	22	49	—	20	40.9	35.9	94.0	93.8	39.5	40.3	1.3	—
Technical, sales, and administrative support occupations	584 700	513 413	71 287	491 633	251 226	12 168	863	9 535	8 745	34.6	33.1	89.5	90.9	21.5	7.4	0.8	0.5
Technicians and related support occupations	129 634	111 989	17 645	103 247	15 224	3 463	1 087	3 067	617	32.3	30.4	95.4	93.5	21.3	31.2	0.4	0.1
Health technicians and technicians	534	468	66	476	66	29	—	4	—	33.6	39.5	93.5	92.3	43.8	16.7	—	—
Licensed practical nurses	246	200	46	176	46	24	—	4	—	34.2	41.6	100.0	90.5	13.0	11.0	—	—
Other health technicians and technicians	308	262	46	226	42	29	—	—	—	33.4	29.2	92.4	100.0	49.2	41.3	—	—
Engineering and science technicians	82 361	73 837	8 524	68 583	7 522	2 059	484	2 221	346	31.9	30.7	94.7	91.0	10.8	12.6	0.4	—
Electrical and electronic technicians	26 993	24 548	2 445	21 966	1 988	882	210	983	184	30.4	30.0	95.7	98.7	10.0	10.5	0.1	—
Industrial and mechanical engineering technicians	3 369	3 104	265	2 921	250	76	6	67	9	35.0	21.2	89.1	76.2	21.2	13.1	1.2	—
Drafting and surveying technicians	36 869	33 468	3 401	31 721	3 218	767	60	853	79	31.9	29.0	95.3	95.4	9.5	14.8	0.5	—
Other engineering and science technicians	15 130	12 717	2 413	11 975	2 066	334	208	318	74	34.7	33.4	92.8	88.9	13.5	11.4	0.5	—
Technicians, except health, engineering, and science	46 719	37 844	8 875	34 387	7 494	1 375	575	842	265	32.9	30.1	96.7	95.9	41.6	49.5	0.5	0.2
Airplane pilots and navigators	573	559	14	557	14	2	—	—	—	38.4	26.3	98.9	100.0	33.8	100.0	2.3	—
Air traffic controllers and broadcast equipment operators	102	73	29	73	29	—	—	—	—	38.2	27.7	69.9	100.0	23.3	44.8	0.5	—
Computer programmers	32 440	25 206	7 234	23 078	6 077	809	490	470	171	32.9	29.8	98.6	98.0	53.7	57.3	0.5	0.2
Other technicians, except health, engineering, and science	13 584	12 006	1 578	10 679	1 374	564	85	370	94	32.9	32.0	92.9	86.1	16.6	13.5	0.3	0.7

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Machinery, except electrical														
Race			Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total			White		Black		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations—Con.														
Sales occupations														
Supervisors and proprietors, sales occupations	74 806	66 495	8 311	7 766	1 064	354	1 170	277	39.1	32.6	38.7	26.2	2.8	1.0
Sales representatives, commodities, except retail	8 286	7 719	567	522	241	23	166	27	41.4	34.6	24.9	20.6	3.5	1.9
Sales representatives, retail and personal services	7 996	7 440	556	511	241	23	166	27	41.3	34.4	25.3	21.0	—	—
Cashiers	290	279	11	11	—	—	—	—	44.5	60.0	13.6	—	98.2	100.0
Other sales occupations, retail and personal services	445	279	160	148	—	—	—	—	39.9	31.8	40.0	40.6	8.1	—
Sales related occupations	61 750	55 428	6 322	5 979	779	211	890	200	38.8	32.3	42.1	30.9	2.8	1.1
Administrative support occupations, including clerical	3 925	2 730	1 195	1 063	44	110	109	38	36.7	32.9	12.7	2.8	1.2	0.2
Supervisors, administrative support occupations	797	134	663	570	23	73	27	34.8	37.9	17.2	3.0	0.3	0.3	—
Computer equipment operators	3 128	2 596	532	493	21	37	101	11	36.8	30.3	12.5	2.4	1.2	—
Secretaries, stenographers, and typists	400	333	67	54	—	4	6	6	38.2	47.6	5.7	14.9	3.9	—
Secretaries	380 240	333 333	46 427	42 226	7 641	11 422	5 298	7 851	35.0	33.4	13.1	5.1	0.2	0.5
Stenographers and typists	134 929	245 331	245 331	228 226	7 641	11 422	5 298	7 851	35.0	33.4	13.1	5.1	0.2	0.5
Receptionists	17 520	8 762	8 758	7 612	705	835	357	349	39.0	37.6	25.6	9.1	0.3	0.7
Other information clerks	100 667	99 444	2 223	2 255	75	273	47	2 773	35.3	33.1	21.2	4.8	1.0	0.2
Other records processing occupations, except financial	90 040	88 256	1 784	1 892	64	273	22	2 336	36.7	33.3	22.6	5.1	1.3	0.5
Bookkeepers, accounting, and auditing clerks	11 627	210	11 417	10 343	11	268	25	437	29.6	30.8	16.2	2.8	0.3	0.3
Payroll and timekeeping clerks	5 494	425	5 069	4 904	20	268	11	236	39.0	30.8	16.5	3.4	6.5	0.1
Other financial records processing occupations	7 431	2 862	4 569	4 049	124	328	72	301	36.6	30.7	11.1	4.6	0.1	—
Telephone operators	11 938	4 788	7 150	6 549	340	415	196	368	35.5	33.0	14.0	6.7	—	—
Mail and message distributing occupations	34 320	4 429	29 891	28 422	246	792	147	686	36.5	37.3	26.4	5.2	0.9	1.5
Production coordinators and expeditors	6 587	1 698	4 889	4 656	87	156	38	142	40.6	36.3	10.7	3.7	—	0.1
Traffic, shipping, and receiving clerks	5 415	1 322	4 093	3 879	85	175	41	76	36.3	33.6	20.7	4.3	—	0.6
Stock and inventory clerks	2 241	1 112	1 129	1 044	8	160	61	367	36.7	40.4	7.1	0.9	—	—
Other material recording, scheduling, and distributing clerks	3 301	1 621	1 680	1 385	182	101	124	57	30.5	30.9	5.4	4.6	0.4	—
Adjusters and investigators	31 189	21 207	9 982	9 288	1 001	503	585	349	35.5	33.1	15.9	6.3	—	—
Date-entry keyers	30 117	24 714	5 403	4 869	1 836	373	1 637	176	32.7	34.0	2.9	2.9	0.1	—
Other administrative support occupations	37 001	26 727	10 274	9 134	1 498	838	947	176	35.8	32.1	6.4	4.8	0.2	—
Service occupations	2 697	1 752	945	865	89	68	56	17	38.2	32.1	10.7	3.7	0.6	0.3
Private household occupations	5 276	3 095	2 181	1 942	98	155	29	72	35.8	32.3	14.6	2.8	0.3	0.1
Protective service occupations	13 458	7 752	5 706	5 277	136	1 043	29	575	30.6	31.3	92.3	93.4	0.3	0.6
Guards	39 954	12 972	26 982	24 843	651	1 444	349	1 030	38.0	33.9	16.1	5.9	0.3	0.6
Other protective service occupations	48 137	40 133	8 004	6 261	4 303	1 447	2 261	314	41.9	41.3	2.6	1.4	0.3	0.2
Food preparation and service occupation	8 913	8 256	657	554	634	92	150	24	50.1	32.6	5.4	2.7	—	—
Health service occupations	8 297	7 654	643	540	606	92	145	16	50.3	32.9	4.9	2.8	—	—
Cleaning and building service occupations, except household	616	602	14	14	28	1	5	8	47.3	25.9	12.3	—	—	—
Personal service occupations	39 224	31 877	7 347	5 707	3 669	1 355	2 111	290	39.4	40.3	1.8	1.2	0.4	0.3
Service occupations	2 679	690	1 989	1 667	177	38	68	23	33.3	44.4	1.7	—	1.3	—
Private household occupations	35 434	30 675	4 759	3 526	3 497	996	2 027	259	41.6	43.1	1.8	1.4	0.4	0.3
Protective service occupations	706	375	331	277	28	40	11	4	39.5	41.1	8.0	2.4	2.9	2.1
Farming, forestry, and fishing occupations	1 141	950	191	136	142	40	16	7	31.0	36.0	4.4	—	2.8	5.2
Precision production, craft, and repair occupations	657 162	615 748	41 414	34 304	24 360	3 741	26 790	3 846	36.4	35.3	4.6	3.9	2.3	0.5
Mechanics and repairers	130 364	124 501	5 863	4 898	5 671	608	5 474	460	35.6	33.0	3.6	5.2	2.3	0.5
Supervisors, mechanics and repairers	2 111	2 050	61	45	45	16	37	—	41.6	38.2	7.9	26.2	1.0	—
Automobile mechanics, including body	6 878	6 510	368	348	362	38	419	42	34.4	35.1	1.5	—	4.6	—
Industrial machinery repairers	35 173	34 488	685	592	1 439	74	1 183	51	37.5	32.7	2.6	3.1	3.0	3.5
Electronic repairers, communications and industrial equipment	2 048	1 810	238	186	107	20	45	7	33.4	34.8	7.5	3.8	0.7	—
Heating, air conditioning, and refrigeration mechanics	5 508	5 364	144	4 887	3 456	31	383	117	34.6	30.8	2.2	—	7.8	—
Other mechanics and repairers	78 646	74 279	4 367	3 660	3 462	429	3 407	343	34.8	32.8	4.1	6.0	1.4	0.1
Construction trades	39 764	38 534	1 230	1 029	1 720	116	1 458	87	36.7	33.4	3.1	1.1	0.9	0.2
Supervisors, construction occupations	1 752	1 700	52	36	147	2	149	15	41.8	43.8	10.2	7.7	2.0	—
Carpenters	3 566	3 515	51	39	460	22	389	36	43.2	45.9	3.7	0.9	—	—
Electricians	18 183	17 607	576	476	460	22	394	37	31.7	28.7	2.0	—	0.2	—
Painters, construction and maintenance	4 344	4 111	233	204	265	6	339	3	38.2	38.2	1.7	—	0.1	—
Plumbers, pipefitters, and steamfitters	7 893	7 817	76	70	285	6	339	3	38.2	38.2	1.7	—	0.8	—
Other construction occupations	4 026	3 784	242	194	132	48	241	6	33.4	32.4	3.1	2.1	2.3	0.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																				
Electrical machinery, equipment, and supplies																				
Total		Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over	2 198 833	1 261 217	937 616	1 118 376	774 649	79 156	99 268	67 928	76 599	37.2	35.5	82.1	70.0	22.6	4.5	0.6	0.2			
Managerial and professional specialty occupations	411 328	352 283	59 045	330 844	53 286	7 062	3 150	7 516	2 282	40.8	34.4	97.6	92.3	58.0	27.7	1.0	0.8			
Executive, administrative, and managerial occupations	206 144	167 246	38 898	159 799	35 310	3 269	2 102	3 556	1 596	42.4	34.9	96.5	92.0	34.3	23.2	1.3	0.8			
Officials and administrators, public administration	23	21	2	21	2	—	—	—	—	47.5	30.0	100.0	100.0	33.3	27.6	—	—			
Financial managers	8 590	7 268	1 322	7 006	1 244	97	46	119	26	39.4	35.5	98.0	96.6	78.2	27.0	0.2	0.5			
Managers, marketing, advertising, and public relations	21 408	19 279	2 129	18 844	2 034	176	64	197	53	41.9	33.3	98.5	98.4	61.0	27.6	0.6	—			
Administrators, education and related fields	11 132	120	12	120	12	—	—	—	—	46.7	30.0	94.2	100.0	56.7	100.0	—	—			
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other specialized managers	11 044	8 619	2 425	8 252	2 215	221	156	113	113	43.1	38.4	97.7	96.1	63.1	31.8	0.4	0.6			
Managers and administrators, n.e.c.	110 620	97 390	13 230	93 284	12 237	1 684	569	2 202	603	43.4	37.3	95.7	89.9	53.6	19.5	1.9	1.7			
Self-employed	108 445	95 495	12 950	91 522	11 963	1 630	563	2 129	603	43.4	37.1	87.5	95.4	54.0	19.5	—	—			
Salaries	2 175	1 895	280	1 762	274	34	6	73	—	44.1	42.1	87.5	95.4	33.0	18.2	96.0	81.1			
Management related occupations	54 327	34 549	19 778	32 272	17 566	1 091	1 267	918	801	39.1	33.5	96.5	91.8	54.2	23.9	0.5	0.3			
Accountants and auditors	23 841	14 990	8 851	13 972	7 743	346	354	430	350	35.9	32.6	99.2	95.3	49.9	33.2	0.3	0.5			
Personnel, training, and labor relations specialists	10 655	5 974	4 681	5 391	4 003	369	439	211	302	40.7	36.6	91.5	83.7	43.6	18.3	0.4	—			
Buyers and purchasing agents	14 826	9 840	4 986	9 428	4 689	234	217	205	107	41.3	32.5	95.5	92.9	34.6	12.5	0.2	—			
Inspectors and compliance officers	4 499	364	135	3 111	100	24	19	20	23	40.8	40.7	85.4	61.5	24.2	—	—	—			
Other management related occupations	4 506	3 381	1 125	3 170	1 031	118	58	32	19	42.0	34.9	97.7	97.1	63.6	26.8	3.1	1.2			
Professional specialty occupations	205 184	185 037	20 147	171 045	17 976	3 793	1 048	3 960	686	39.1	33.4	98.7	92.9	59.6	36.5	0.7	0.9			
Engineers, architects, and surveyors	156 169	148 337	7 832	136 875	6 848	2 662	2 662	3 216	285	39.2	31.5	98.9	93.6	61.7	40.2	0.6	0.5			
Architects	73	68	5	68	5	—	—	—	—	—	—	—	—	—	—	—	—			
Engineers	156 063	148 236	7 827	136 783	6 843	2 653	363	3 216	285	39.2	31.5	98.9	93.6	61.7	40.2	0.6	0.5			
Civil engineers	99 161	95 778	3 383	87 773	2 884	1 14	145	2 017	144	38.6	30.9	96.2	93.8	66.5	48.8	0.9	0.9			
Electrical and electronic engineers	27 824	24 795	3 029	23 451	2 743	1 728	440	2 017	144	40.6	32.5	98.3	92.8	46.9	25.9	0.2	2.0			
Industrial engineers	10 944	10 651	293	10 085	270	118	118	235	110	42.2	37.1	98.2	92.5	35.9	49.5	0.4	2.0			
Mechanical engineers	17 440	16 363	1 077	14 860	907	353	38	342	31	38.7	31.0	98.8	95.8	59.3	52.8	0.8	0.3			
Other engineers	33	33	—	24	—	9	—	—	—	29.8	—	100.0	—	15.2	—	—	—			
Surveyors and mapping scientists	8 896	7 312	1 584	6 786	1 415	173	81	154	33	35.1	31.9	99.4	95.5	61.7	39.5	0.8	1.3			
Computer systems analysts and scientists	4 617	3 644	973	3 447	898	141	973	75	82	37.0	37.0	97.0	97.0	46.3	28.9	1.3	—			
Operations and systems researchers and analysts	852	475	377	435	346	11	17	6	7	39.7	39.7	98.7	96.8	74.5	20.7	1.3	—			
Mathematical scientists	3 747	3 079	668	2 758	529	85	47	28	42	39.0	31.6	98.7	89.7	77.2	58.4	1.2	1.6			
Natural scientists	2 003	1 651	352	1 468	262	54	13	28	17	39.6	30.2	99.6	95.7	76.5	84.9	0.4	—			
Chemists, except biochemists	1 744	1 428	316	1 290	267	31	34	25	25	52.8	34.6	99.6	98.9	78.1	28.8	2.2	3.5			
Other natural scientists	1 47	120	27	91	20	11	37	—	—	—	—	—	—	—	—	—	—			
Health diagnosing occupations	1 953	1 18	1 835	97	1 768	11	37	—	—	31.0	47.8	93.2	97.4	39.0	25.4	—	2.1			
Health assessment and treating occupations	1 835	118	1 717	37	1 721	7	32	—	—	31.8	47.8	94.6	98.0	55.8	24.1	—	1.7			
Registered nurses	1 835	52	1 783	37	1 721	7	32	—	—	31.8	47.8	94.6	98.0	55.8	24.1	—	1.7			
Other health assessment and treating occupations	118	66	52	60	47	4	5	—	—	30.1	49.8	100.0	76.9	25.8	73.1	—	13.5			
Teachers, except postsecondary	2 384	1 430	954	1 296	772	81	121	25	63	39.3	36.4	92.4	76.5	31.2	16.7	0.4	0.8			
Social scientists and urban planners	4 759	3 637	1 122	3 459	1 038	103	31	52	19	38.6	30.0	97.3	93.9	75.0	46.7	1.0	—			
Social and recreation workers	80	54	26	39	20	15	6	8	10	40.4	43.1	87.0	61.5	20.4	11.5	—	—			
Lawyers and judges	1 404	1 289	115	1 242	98	47	6	9	10	42.0	30.1	100.0	100.0	59.5	72.2	0.5	—			
Writers, artists, entertainers, and athletes	19 490	15 271	4 219	14 268	3 833	445	245	369	142	40.1	35.7	96.9	92.2	34.1	22.0	1.9	1.4			
Other professional specialty occupations	686	271	415	252	391	19	19	11	17	41.8	42.1	94.1	94.5	48.3	43.1	—	—			
Technical, sales, and administrative support occupations	484 005	237 320	246 685	211 987	219 869	13 173	16 243	10 483	11 947	34.2	33.7	90.5	88.3	19.9	6.4	0.8	0.2			
Technicians and related support occupations	135 749	110 408	25 341	98 421	21 132	4 973	1 793	4 342	1 762	32.5	32.9	94.9	94.9	16.5	15.2	0.5	0.2			
Health technologists and technicians	610	364	246	244	225	—	—	—	—	34.4	34.8	100.0	85.2	42.3	13.5	1.6	—			
Licensed practical nurses	123	21	102	21	88	—	—	—	—	57.5	39.7	100.0	75.5	6.9	—	—	—			
Other health technologists and technicians	487	345	142	305	137	—	—	—	—	33.6	32.8	100.0	92.3	44.9	18.3	1.7	—			
Engineering and science technicians	110 509	91 511	18 998	81 563	15 827	4 145	1 443	3 613	1 489	32.5	33.9	94.6	92.0	10.8	7.5	0.4	0.2			
Electrical and electronic technicians	72 477	61 487	10 990	54 048	8 915	3 080	921	2 533	954	31.8	34.5	94.5	79.3	25.1	5.7	0.3	0.1			
Industrial and mechanical engineering technicians	1 825	1 571	254	1 438	214	61	21	84	22	35.1	32.5	91.9	93.6	25.1	16.1	1.6	—			
Drafting and surveying technicians	23 450	19 914	3 536	18 321	3 202	592	103	729	137	33.5	31.1	95.5	94.1	9.2	11.3	0.4	0.1			
Other engineering and science technicians	12 757	8 539	4 218	7 756	3 496	412	412	398	267	36.2	34.6	93.1	79.5	17.3	8.7	0.8	0.2			
Technicians, except health, engineering, and science	24 630	18 731	5 899	16 532	5 080	828	336	718	273	32.3	30.6	96.8	93.9	43.4	40.0	0.8	0.3			
Airplane pilots and navigators	296	296	2	296	2	10	2	6	5	37.0	40.0	97.6	100.0	34.0	34.0	—	—			
Air traffic controllers and broadcast equipment operators	463	333	130	305	96	22	22	340	126	33.4	32.0	90.1	70.8	50.4	54.4	1.8	—			
Computer programmers	15 253	11 166	4 087	10 187	3 559	369	175	340	126	32.0	29.6	98.3	97.4	56.6	50.4	0.5	—			
Other technicians, except health, engineering, and science	8 618	6 958	1 660	5 748	1 423	447	139	368	142	32.6	33.6	94.5	87.3	23.8	17.3	1.2	—			

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Electrical machinery, equipment, and supplies																	
Race			Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
43 704	36 044	7 660	34 524	6 945	872	495	888	326	38.6	32.7	87.2	18.6	3.2	1.4	3.2	1.4	
4 469	3 898	571	3 687	479	98	68	135	16	41.2	37.8	90.5	10.2	3.3	2.1	3.3	2.1	
4 320	3 768	552	3 561	469	98	68	135	16	41.1	37.5	90.2	10.5	100.0	63.2	—	—	
1 449	1 300	149	1 226	19	8	9	—	—	44.3	42.9	100.0	—	—	—	—	—	
364	234	130	226	121	8	9	—	—	35.4	32.6	97.4	26.2	2.1	1.5	—	—	
35 690	30 259	5 431	29 059	5 007	693	286	685	189	38.3	31.6	95.6	46.4	3.1	—	—	—	
2 931	1 589	1 342	1 488	1 057	73	126	68	121	37.4	36.4	85.1	27.1	3.8	—	—	—	
899	201	698	179	594	6	85	65	84	36.7	41.7	64.6	0.7	6.5	—	—	—	
2 032	1 388	644	1 309	564	67	41	3	37	37.4	32.8	88.3	10.1	3.5	—	—	—	
250	64	186	64	180	—	6	—	—	40.0	40.2	100.0	19.9	—	7.0	—	—	
304 552	90 668	213 884	79 042	191 792	7 328	13 955	5 253	9 859	35.2	33.8	88.7	5.0	0.2	0.2	0.2	0.2	
19 586	13 004	6 582	11 910	6 072	562	265	579	272	40.7	38.2	90.7	11.1	0.1	0.1	0.1	0.1	
12 633	5 514	7 119	4 774	2 345	425	245	329	267	31.5	30.8	94.8	5.0	0.4	0.2	0.2	0.2	
78 676	48 307	30 369	44 946	13 423	3 643	3 643	47	2 081	32.0	33.5	94.2	4.6	—	—	—	—	
68 930	550	68 380	479	63 965	35	2 785	47	2 081	31.6	33.7	94.7	4.6	—	—	—	—	
9 746	120	9 626	83	877	29	877	—	473	33.5	31.5	90.6	4.4	—	—	—	—	
4 051	82	3 969	3 484	485	12	281	13	355	33.1	32.3	87.6	4.5	—	—	—	—	
1 403	393	1 010	393	85	159	452	6	411	43.8	32.9	91.1	90.6	3.2	—	—	—	
8 534	2 619	5 915	2 393	3 522	159	452	140	411	38.3	33.0	86.1	75.7	0.2	—	—	—	
10 474	2 919	7 555	2 548	6 667	259	659	164	313	38.5	33.7	87.3	6.6	0.2	0.1	—	—	
22 879	2 748	20 131	18 574	1 747	174	764	165	792	35.3	35.4	95.1	36.0	0.4	0.6	—	—	
4 757	641	4 116	3 737	49	254	32	327	110	39.7	37.8	86.3	9.2	—	—	—	—	
4 131	964	3 167	2 831	378	70	203	45	175	35.9	35.1	90.6	21.9	—	0.2	—	—	
2 886	250	2 636	2 207	429	79	378	55	112	33.5	39.3	86.4	3.6	—	—	—	—	
2 927	1 473	1 454	1 148	306	227	194	112	60	27.1	32.4	75.4	8.0	0.7	—	—	—	
28 671	15 240	13 431	13 762	1 821	882	1 014	611	677	36.6	34.0	88.1	62.2	0.2	0.1	—	—	
23 840	16 492	6 348	13 523	5 076	1 899	430	1 521	440	31.1	34.0	70.2	1.7	—	—	—	—	
25 766	15 120	10 646	12 851	9 277	1 482	816	93	621	34.3	34.3	75.1	3.5	0.1	—	—	—	
2 353	1 725	6 081	1 578	4 503	138	589	53	401	35.9	32.3	95.4	13.4	—	—	—	—	
4 727	1 705	3 022	1 578	1 444	210	137	76	147	34.8	32.1	88.9	2.8	—	—	—	—	
11 500	802	10 698	8 402	2 296	198	648	50	648	37.9	34.0	90.2	5.4	0.3	0.1	—	—	
36 263	8 814	27 449	7 989	23 951	567	2 265	344	1 599	37.9	34.0	86.3	5.4	0.3	0.1	—	—	
37 937	30 726	7 211	25 339	5 483	3 681	1 324	2 592	513	43.1	41.9	55.4	3.0	0.2	0.7	—	—	
9 159	8 224	935	7 189	732	821	157	266	32	50.3	39.1	65.0	8.3	—	—	—	—	
8 586	7 715	871	6 738	668	775	157	249	25	50.4	38.3	64.3	6.4	0.1	—	—	—	
573	509	64	451	64	46	10	17	7	49.0	52.1	76.0	31.3	—	—	—	—	
28 778	22 502	6 276	18 150	4 751	2 860	1 167	2 326	481	40.1	42.5	51.8	2.8	0.3	0.8	—	—	
2 044	646	1 398	481	1 167	126	174	64	61	33.4	46.3	57.0	11.0	—	0.9	—	—	
256	47	209	45	183	—	19	8	3	40.4	42.9	68.1	6.7	—	—	—	—	
25 928	21 535	4 393	17 411	3 213	2 697	894	2 223	417	40.3	41.1	51.4	2.3	0.3	0.5	—	—	
550	274	276	213	188	37	80	31	—	39.7	45.7	71.5	23.7	2.9	5.4	—	—	
1 177	564	613	474	315	38	125	71	68	35.1	31.4	58.9	4.1	—	—	—	—	
402 080	276 409	125 671	249 061	97 986	15 262	13 426	14 503	15 668	39.0	36.9	64.8	8.3	0.5	0.3	—	—	
86 335	71 551	14 784	64 602	12 153	4 302	1 930	3 216	991	37.5	35.8	78.5	3.7	1.0	0.2	—	—	
1 673	1 554	119	1 484	109	41	10	50	3	42.3	36.5	88.7	10.9	1.8	—	—	—	
1 738	1 505	233	1 360	199	84	34	116	6	34.6	34.1	66.2	4.1	1.5	0.9	—	—	
18 812	17 272	1 540	15 980	1 249	836	237	564	82	37.8	37.0	69.4	2.4	0.7	0.3	—	—	
9 085	6 880	2 205	5 999	1 839	470	266	367	191	33.7	36.2	66.7	5.8	1.5	0.3	—	—	
1 743	1 558	185	1 500	75	78	10	132	—	37.0	31.1	67.1	2.2	0.9	0.1	—	—	
53 284	42 682	10 602	38 279	8 682	2 793	1 373	1 987	709	37.8	35.6	68.4	3.6	0.9	0.1	—	—	
28 122	24 961	3 161	22 626	2 335	1 431	552	1 388	304	38.0	35.5	77.2	4.2	0.6	0.1	—	—	
1 093	981	112	926	65	21	16	158	—	40.1	43.3	60.7	14.6	—	—	—	—	
2 395	2 196	199	2 095	77	72	29	155	—	40.6	43.0	60.7	2.1	1.2	—	—	—	
17 596	15 593	2 003	14 210	1 496	850	363	155	199	37.0	35.0	81.4	4.5	0.7	0.1	—	—	
2 433	2 021	412	1 521	377	281	66	358	40	40.0	32.4	54.3	2.2	0.2	—	—	—	
2 799	2 671	108	2 574	71	75	84	100	43	43.0	32.4	77.1	2.2	0.2	—	—	—	
1 896	1 477	419	1 300	326	132	84	96	22	43.0	37.4	66.8	2.3	1.2	—	—	—	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States											
Electrical machinery, equipment, and supplies											
Both sexes	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
226	165	61	147	47	18	14	5	37.2	32.7	80.0	67.2
287 397	179 732	107 665	161 886	83 405	9 511	10 930	9 894	37.7	37.1	89.8	64.4
116 450	89 784	26 666	82 733	22 112	2 975	7 099	4 087	41.2	38.7	86.6	70.8
56 050	51 180	4 870	47 039	3 721	2 354	2 354	2 354	40.6	38.7	75.4	59.8
17 719	17 416	303	16 840	260	1 400	21	1 400	37.6	37.6	79.7	77.3
27 900	25 515	2 385	22 722	1 732	1 589	481	1 431	37.8	37.5	73.0	55.3
4 009	3 820	1 89	3 423	1 787	194	207	217	37.4	37.4	96.7	62.4
6 422	4 429	1 993	4 074	1 742	232	207	157	36.7	35.9	76.5	61.8
787	628	159	411	125	24	109	27	32.0	30.6	70.4	40.3
535	314	221	263	180	41	263	45	38.4	36.3	65.9	52.1
30 382	14 673	15 709	12 743	994	1 842	690	1 178	35.1	34.0	83.6	65.8
4 642	4 184	458	3 845	368	177	62	119	44.2	39.5	88.9	73.8
78 551	19 458	59 093	14 800	42 870	1 772	6 156	2 592	29.7	35.1	68.7	61.6
862 306	343 915	498 391	300 671	397 730	39 940	65 000	32 763	33.0	36.5	65.6	59.8
758 441	296 839	461 602	245 582	347 852	31 416	60 322	27 006	33.2	36.5	64.3	60.0
289 096	149 824	139 272	124 282	112 043	16 109	18 753	16 017	34.0	36.5	63.8	58.5
59 305	41 587	17 718	36 620	15 261	3 354	1 855	2 612	36.3	37.9	62.9	56.9
4 212	1 537	2 675	1 371	2 349	124	264	71	38.2	41.3	64.0	59.1
19 239	13 059	6 180	10 989	5 280	1 264	654	1 212	32.3	36.7	65.1	60.5
4 129	1 904	2 225	1 410	1 844	164	212	209	30.8	34.3	76.1	67.4
1 533	543	990	467	750	50	169	61	25.7	33.0	69.4	53.8
2 109	263	1 846	198	1 389	65	271	17	32.5	36.5	42.6	49.8
124	45	79	29	46	16	21	—	32.5	34.6	100.0	58.2
1 714	467	1 247	373	1 002	71	154	46	32.1	36.8	69.8	61.3
3 423	1 304	2 119	2 932	1 142	395	101	134	36.4	36.7	63.5	63.2
30 022	17 234	12 788	14 193	10 559	1 930	13 725	1 682	33.0	33.9	61.3	61.6
161 982	69 772	92 210	55 500	72 441	8 674	13 725	7 973	33.4	36.6	64.4	58.1
366 507	113 039	253 468	91 734	199 514	12 709	33 719	10 771	31.1	35.8	65.8	59.3
28 485	19 289	9 196	15 953	7 741	2 254	975	1 679	32.9	36.8	62.6	53.9
15 245	1 925	13 320	10 626	2 694	98	1 464	517	25—	35.7	53.5	55.5
320 294	90 687	229 605	73 266	180 045	10 239	31 117	8 488	30.8	35.8	66.8	59.8
2 483	1 136	1 347	970	1 102	118	163	87	31.3	34.1	58.9	58.4
102 838	33 966	68 872	29 566	56 275	2 598	7 852	2 213	37.5	39.2	78.4	65.5
1 335	263	1 072	207	671	45	280	4	36.6	35.8	74.1	62.3
101 503	33 703	67 800	29 359	55 604	2 553	7 568	2 209	37.5	39.2	78.4	65.6
36 478	30 974	5 504	25 949	4 514	3 994	718	1 893	34.0	33.4	63.0	67.0
10 630	10 131	499	8 477	422	1 338	54	639	37.7	36.4	58.3	70.1
10 392	9 941	451	8 298	387	1 327	41	639	37.6	36.0	58.2	69.0
9 337	9 004	333	7 569	283	1 172	27	510	37.2	36.6	63.7	69.0
171	142	29	122	29	4	—	20	38.0	41.1	73.9	51.7
884	795	89	607	75	151	14	109	41.5	31.2	63.6	94.4
238	190	48	179	35	11	13	—	41.7	38.0	63.7	81.3
25 848	20 843	5 005	17 472	4 092	2 656	664	1 254	39.9	33.2	65.3	66.7
694	643	51	628	51	—	—	16	39.9	46.5	95.3	62.7
1 687	1 593	94	1 311	61	242	33	77	39.1	31.3	59.8	81.9
1 107	71	36	1 311	36	—	—	—	40.4	33.2	38.0	36.1
23 360	18 536	4 824	15 462	3 944	2 414	631	1 161	32.0	33.1	64.8	66.7
67 387	36 102	31 285	29 140	25 364	4 530	3 960	3 864	31.1	36.1	62.4	55.6
212	157	55	157	39	—	—	6	41.1	32.8	85.4	87.3
2 614	2 013	601	1 621	460	233	112	299	30.7	32.9	60.9	66.6
281	199	82	934	82	5	—	—	31.0	38.3	88.9	54.9
18 296	11 014	7 282	9 328	5 983	1 138	939	836	31.0	34.8	62.3	55.8
1 572	899	673	695	573	132	66	88	30.2	35.9	59.3	59.6
20 223	12 670	7 603	5 790	10 471	1 062	1 438	1 225	32.1	38.8	60.6	58.1
24 189	14 267	9 922	11 355	7 756	1 960	1 403	1 410	32.1	34.6	63.3	58.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980 (Con.)

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see Appendix A.)

	United States									
	Motor vehicles and motor vehicle equipment									
	Motor vehicles and motor vehicle equipment									
Both sexes	Total		White		Black		Spanish origin ¹		Median age	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	1 171 123	957 846	806 934	167 632	123 947	39 649	39 616	8 015	39.0	36.2
Managerial and professional specialty occupations	128 413	114 723	107 960	12 031	4 424	1 359	1 413	225	41.2	34.6
Executive, administrative, and managerial occupations	69 394	60 428	57 279	7 937	2 316	867	894	154	41.8	35.0
Professional specialty occupations	2 325	2 058	1 985	247	75	12	23	19	42.3	34.9
Financial managers, public administration	6 593	6 195	6 062	365	75	13	43	19	42.3	34.9
Managers, marketing, advertising, and sales relations	44	31	31	7	7	0	0	0	41.6	38.9
Managers, education and related fields	3 559	3 021	2 850	487	134	45	64	5	41.7	37.6
Managers, medicine and health	31 365	29 180	27 905	2 185	866	97	551	37	43.1	40.6
Managers and administrators, n.e.c.	30 263	28 202	26 599	2 061	866	97	536	37	43.1	40.6
Self-employed	1 102	978	946	124	134	45	64	5	41.7	37.6
Management related occupations	25 501	19 936	18 438	4 739	1 199	694	713	93	39.6	33.3
Accountants and auditors	12 234	9 066	8 450	2 434	391	199	213	93	37.9	32.4
Personnel, training, and labor relations specialists	5 778	4 640	4 121	962	172	144	108	52	37.9	32.4
Buyers and purchasing agents	4 764	3 870	3 681	853	172	144	108	52	37.9	32.4
Inspectors and compliance officers	356	377	353	11	94	51	49	17	40.6	34.6
Other management related occupations	2 357	2 013	1 933	279	67	56	6	—	41.7	31.7
Professional specialty occupations	59 019	54 295	47 294	4 094	2 108	492	519	71	40.6	33.8
Engineers, architects, and surveyors	43 994	42 382	39 486	1 350	1 404	199	376	20	40.5	29.3
Architects	94	86	86	8	4	4	4	—	47.6	30.0
Engineers	43 866	42 282	39 366	1 342	1 404	199	372	20	40.5	29.3
Civil engineers	531	528	500	3	18	—	—	—	40.5	29.3
Electrical and electronic engineers	2 062	2 013	1 867	49	47	—	40	—	35.1	30.0
Industrial engineers	10 223	9 630	9 041	599	361	63	103	8	40.7	32.2
Mechanical engineers	26 553	25 860	24 020	553	994	111	180	12	40.7	28.8
Other engineers	4 517	4 331	3 938	138	182	25	32	—	40.6	28.8
Surveyors and mapping scientists	14	14	14	—	—	—	—	—	43.8	—
Computer systems analysts and scientists	2 474	2 135	339	273	67	55	13	7	36.5	31.8
Operations and systems researchers and analysts	1 457	1 177	212	228	55	32	8	—	40.0	31.8
Mathematical scientists	471	339	299	128	21	5	—	—	41.6	36.6
Natural scientists	877	749	681	101	39	8	16	8	40.4	33.9
Chemists, except biochemists	677	569	513	87	9	7	9	—	40.4	33.1
Other natural scientists	194	180	146	44	30	1	7	—	41.9	59.4
Health diagnosing occupations	157	137	129	10	3	10	15	—	57.0	50.0
Health assessment and treating occupations	1 290	1 103	92	110	11	7	—	—	39.8	49.2
Registered nurses	1 251	75	176	44	11	77	—	—	42.9	49.1
Other health assessment and treating occupations	39	28	28	11	—	—	—	—	36.0	55.8
Teachers, except postsecondary	464	405	381	47	22	6	18	—	44.2	40.3
Social scientists and urban planners	801	613	188	150	47	22	—	—	40.1	27.8
Social and recreation workers	31	11	11	15	—	—	—	—	47.1	57.3
Lawyers and judges	736	651	641	65	10	20	6	5	39.5	30.8
Writers, artists, entertainers, and athletes	6 152	5 539	5 241	543	214	58	65	13	42.4	31.3
Other professional specialty occupations	134	54	41	74	13	—	—	—	38.4	40.0
Technical, sales, and administrative support occupations	149 759	88 061	61 698	54 500	6 655	5 845	2 482	1 740	39.7	34.9
Technicians and related support occupations	22 509	20 031	18 570	2 187	1 060	208	387	37	37.8	29.8
Health technicians and technicians	225	151	142	89	4	15	10	—	36.4	29.0
Licensed practical nurses	70	8	6	47	—	—	—	—	40.0	46.4
Other health technicians and technicians	185	143	134	42	—	—	—	—	35.8	30.6
Engineering and science technicians	17 067	15 726	14 599	1 180	856	124	297	26	38.9	29.6
Electrical and electronic technicians	1 883	1 562	1 255	88	91	33	20	—	33.7	24.4
Industrial and mechanical engineering technicians	2 863	2 743	2 598	83	102	43	43	—	34.3	23.1
Drafting and surveying technicians	8 063	7 484	6 933	544	390	24	208	18	30.9	30.6
Other engineering and science technicians	4 695	4 137	3 813	472	273	60	26	8	38.9	25.7
Technicians, except health, engineering, and science	5 187	4 154	3 829	918	200	69	80	11	38.4	32.4
Airplane pilots and navigators	126	126	126	—	—	—	—	—	29.5	29.5
Air traffic controllers and broadcast equipment operators	51	38	32	13	6	—	5	—	34.5	34.5
Computer programmers	2 951	2 173	2 042	683	77	62	37	—	33.1	33.1
Other technicians, except health, engineering, and science	2 059	1 817	1 629	222	117	7	38	—	28.7	28.7
Persons of Spanish origin may be of any race.									34.7	31.7

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Motor vehicles and motor vehicle equipment											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Black						
United States												
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations	16 019	14 475	1 544	13 703	1 354	429	145	34	38.8	33.6	89.4	82.6
Supervisors and proprietors, sales occupations	2 357	2 246	111	2 068	97	109	6	46	40.8	41.6	90.0	86.5
Self-employed	2 244	2 159	85	1 981	79	109	6	41	50.5	55.0	90.6	91.8
Sales representatives, finance and business services	113	87	26	87	18	—	—	5	40.4	37.8	75.9	69.2
Sales representatives, commodities, except retail	91	78	13	73	13	—	—	—	50.5	55.7	100.0	53.8
Sales workers, retail and personal services	9 913	9 177	736	8 755	662	244	60	287	39.4	32.3	90.6	86.8
Cashiers	3 570	2 892	678	2 725	582	76	73	129	34.8	34.4	85.1	77.9
Other sales occupations, retail and personal services	517	92	425	2 725	582	27	47	6	38.7	41.2	79.3	74.8
Sales related occupations	3 053	2 800	253	2 660	221	49	26	123	34.7	27.9	85.3	80.0
Administrative support occupations, including clerical	88	82	6	82	—	—	—	—	34.7	30.0	80.5	100.0
Supervisors, administrative support occupations	111 231	53 555	57 676	47 276	50 959	5 166	5 492	1 669	40.7	35.3	79.9	91.2
Computer equipment operators	8 324	6 856	1 468	6 335	1 288	444	122	63	42.2	40.0	93.5	89.0
Secretaries, stenographers, and typists	4 455	2 305	2 150	2 046	1 751	198	341	71	35.5	32.4	95.3	95.0
Stenographers and typists	23 788	21 415	2 373	20 463	2 199	1 865	434	514	41.3	35.0	92.3	95.1
Receptionists	20 714	21 415	2 373	20 463	2 199	1 865	434	514	41.3	35.0	92.3	95.1
Other information clerks	3 074	154	2 920	132	2 436	22	431	—	42.6	34.8	89.0	91.8
File clerks	990	27	963	20	891	7	47	—	47.5	33.0	100.0	90.7
Other records processing occupations, except financial	352	142	210	124	171	18	39	—	42.3	31.7	78.9	86.7
Bookkeepers, accounting, and auditing clerks	2 517	1 591	926	1 422	768	145	133	32	40.2	34.2	79.9	79.7
Payroll and timekeeping clerks	3 265	1 658	1 607	1 361	1 320	259	244	97	39.5	37.4	80.4	88.6
Other financial records processing occupations	7 320	3 882	3 438	1 275	5 473	79	328	33	40.1	36.7	94.1	92.2
Telephone operators	839	1 520	681	774	1 394	46	107	34	40.8	38.9	93.0	90.1
Mail and message distributing occupations	1 295	371	924	363	807	8	60	—	40.5	34.7	90.3	94.9
Production coordinators and expeditors	527	29	498	7	438	22	109	14	29.3	43.4	75.9	71.8
Traffic, shipping, and receiving clerks	980	614	366	510	308	100	51	—	31.7	28.9	80.0	76.2
Stock and inventory clerks	10 716	8 348	2 368	7 500	2 126	745	203	154	41.1	35.7	80.7	88.8
Adapters and investigators	8 402	7 031	1 371	5 892	1 208	835	139	386	39.3	34.1	65.8	74.5
Other material recording, scheduling, and distributing clerks	14 825	12 452	2 373	10 775	1 957	1 369	315	490	41.4	37.2	68.3	74.9
Adapters and investigators	1 372	1 088	284	913	207	146	57	44	39.5	34.4	75.7	72.5
Data-entry keyers	2 286	1 581	705	1 453	589	111	92	25	37.2	33.7	89.8	91.2
Other administrative support occupations	3 633	2 13	3 420	2 812	6 252	562	479	133	37.1	33.7	84.0	89.8
Service occupations	13 805	6 613	7 192	5 959	6 252	562	479	133	41.8	35.3	88.3	90.2
Private household occupations	32 601	28 509	4 092	22 474	2 774	5 357	1 209	1 104	44.4	42.5	56.4	62.9
Protective service occupations	7 830	7 357	473	6 324	395	925	143	93	46.1	32.0	76.1	92.0
Guards	7 023	6 550	473	5 402	325	842	143	91	46.8	32.0	76.1	92.0
Other protective service occupations	807	807	—	16 122	2 449	4 432	1 046	2	43.8	44.4	49.5	59.0
Food preparation and service occupations	24 771	21 132	3 639	16 122	514	4 432	1 046	2	43.8	44.4	49.5	59.0
Health service occupations	921	234	687	155	514	75	27	15	47.7	48.7	61.4	93.5
Cleaning and building service occupations, except household	17 176	13 833	3 343	15 776	1 781	4 306	861	996	44.0	42.6	49.2	59.1
Personal service occupations	23 349	20 645	2 704	15 776	1 781	4 306	861	996	44.0	42.6	49.2	59.1
Farming, forestry, and fishing occupations	305	187	118	146	88	41	24	—	40.5	49.6	73.8	54.2
Precision production, craft, and repair occupations	402	367	35	321	29	39	6	7	34.2	34.2	70.8	74.3
Mechanics and repairers	250 504	239 883	10 621	213 903	8 339	20 637	1 998	8 145	41.5	36.8	74.2	68.3
Supervisors, mechanics and repairers	85 229	82 599	2 630	71 347	2 051	8 798	525	3 596	40.2	35.0	65.0	61.1
Automobile mechanics, including body	956	931	25	854	25	47	—	22	41.0	33.9	76.6	100.0
Industrial machinery repairers	32 410	31 099	1 311	25 373	1 030	4 329	252	2 120	37.2	36.5	60.9	57.0
Electronic repairers, communications and industrial equipment	17 895	17 644	251	16 032	207	1 378	44	310	41.7	34.8	72.1	71.7
Heating, air conditioning, and refrigeration mechanics	793	722	71	586	60	85	11	32	39.8	35.2	87.3	88.7
Other mechanics and repairers	32 528	31 561	967	27 946	724	2 870	218	1 106	41.7	33.8	64.2	60.7
Construction trades	30 372	29 555	817	26 695	658	2 320	141	878	41.3	32.0	75.8	69.6
Supervisors, construction occupations	2 187	2 091	96	1 913	83	117	13	86	42.0	30.4	80.4	100.0
Carpenters	14 931	14 635	296	13 467	252	973	38	327	44.7	30.4	59.6	52.1
Electricians	2 990	2 731	259	2 162	185	437	49	196	40.9	30.6	84.5	80.4
Painters, construction and maintenance	8 294	6 239	2 055	7 515	33	431	22	143	42.9	32.7	56.3	59.4
Plumbers, pipefitters, and steamfitters	1 307	1 180	127	979	101	162	19	100	42.9	32.7	73.1	67.3
Other construction trades	—	—	—	—	—	—	—	—	36.8	33.1	55.5	77.2
Percent self-employed												
Male	3.0	3.9	100.0	29.3	30.5	31.2	37.8	13.1	29.9	30.5	31.2	37.8
Female	5.0	23.4	100.0	13.1	13.5	17.6	—	—	29.9	30.5	31.2	37.8
Percent completed 4 or more years of college												
Male	2.8	2.7	2.1	17.7	16.0	16.2	16.2	16.2	17.7	16.0	16.2	16.2
Female	5.5	12.2	0.2	5.0	11.0	6.6	—	—	17.7	16.0	16.2	16.2
Percent high school graduates												
Male	89.4	90.0	90.6	89.4	90.0	90.6	90.6	90.6	89.4	90.0	90.6	90.6
Female	82.6	86.5	91.8	82.6	86.5	91.8	91.8	91.8	82.6	86.5	91.8	91.8
Spanish origin ¹												
Male	462	46	41	462	46	41	—	—	46.2	46.2	46.2	46.2
Female	1 669	1 669	1 669	1 669	1 669	1 669	1 669	1 669	1 669	1 669	1 669	1 669
Median age												
Male	38.8	40.8	41.6	38.8	40.8	41.6	41.6	41.6	38.8	40.8	41.6	41.6
Female	33.6	35.0	35.7	33.6	35.0	35.7	35.7	35.7	33.6	35.0	35.7	35.7
Percent high school graduates												
Male	89.4	90.0	90.6	89.4	90.0	90.6	90.6	90.6	89.4	90.0	90.6	90.6
Female	82.6	86.5	91.8	82.6	86.5	91.8	91.8	91.8	82.6	86.5	91.8	91.8
Percent self-employed												
Male	3.0	3.9	100.0	29.3	30.5	31.2	37.8	13.1	29.9	30.5	31.2	37.8
Female	5.0	23.4	100.0	13.1	13.5	17.6	—	—	29.9	30.5	31.2	37.8
Percent completed 4 or more years of college												
Male	2.8	2.7	2.1	17.7	16.0	16.2	16.2	16.2	17.7	16.0	16.2	16.2
Female	5.5	12.2	0.2	5.0	11.0	6.6	—	—	17.7	16.0	16.2	16.2
Percent high school graduates												
Male	89.4	90.0	90.6	89.4	90.0	90.6	90.6	90.6	89.4	90.0	90.6	90.6
Female	82.6	86.5	91.8	82.6	86.5	91.8	91.8	91.8	82.6	86.5	91.8	91.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Extractive occupations
Precision production occupations
Precision production machine operators
Precision production machine operators, except precision
Precision metalworking occupations
Tool and die makers
Machinists
Sheet metal workers
Other precision metal workers
Precision textile, apparel, and furnishings machine workers
Precision food production occupations
Precision inspectors, testers, and related workers
Print and system operation occupations
Other precision production occupations

Operators, fabricators, and laborers
Machine operators, assemblers, and inspectors
Machine operators and finders, except precision
Machine working and plastic processing machine operators
Fabricators and related workers
Metal and plastic processing and woodworking machine operators
Printing machine operators
Textile machine operators
Textile sewing machine operators
Laundry and dry cleaning machine operators
Packaging and filling machine operators
Urinals, lifts, and open operators, except food
Other specified machine operators
Miscellaneous and not specified machine operators
Fabricators, assemblers, and hand working occupations
Welders and cutters
Soldiers and brazers
Assemblers
Hand working occupations
Production inspectors, testers, samplers, and weighers
Graders and sorters, except agricultural
Other production inspectors, testers, samplers, and weighers

Transportation and material moving occupations
Transportation occupations
Motor vehicle operators
Motor vehicle operators
Driver-sales workers
Other motor vehicle operators
Rail and water transportation occupations
Material moving equipment operators
Supervisors, material moving equipment operators
Crane, hoist and winch operators
Excavating, grading, and dozer machine operators
Other material moving equipment operators

Handlers, equipment cleaners, helpers, and laborers
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.
Helpers, craft and production
Construction laborers
Freight, stock, and material handlers
Garage and service station attendants, and equipment cleaners
Hand packers and packagers
Laborers, except construction

Motor vehicles and motor vehicle equipment													
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Both sexes		White		Black		Male		Male		Male		Male	
Total	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
148 755	143	125	5	16	—	3 671	303	39.4	51.0	100.0	—	—	—
127 586	7 169	115 736	5 625	9 503	—	2 004	303	42.3	79.8	75.7	0.6	0.3	—
66 797	3 314	57 152	1 882	6 014	—	1 586	156	42.0	83.8	75.7	1.3	0.3	—
59 729	3 000	56 729	2 918	2 317	—	286	63	35.9	75.4	47.9	15.4	0.3	—
27 889	349	26 057	281	2 317	—	286	63	31.5	78.9	84.0	4.0	0.2	—
15 380	793	12 965	595	1 089	—	176	498	38.0	84.0	61.7	2.6	5.9	—
3 541	85	3 203	69	1 089	—	137	498	46.2	70.0	73.5	2.2	4.7	—
5 470	260	4 973	176	180	—	137	498	47.4	73.5	81.2	3.0	0.4	—
7 588	342	7 073	308	88	—	56	52	34.9	60.8	73.5	4.3	—	—
1 827	7	1 721	7	43	—	89	5	37.3	55.4	58.5	4.0	—	—
4 801	485	3 946	389	256	—	97	21	41.0	80.2	82.9	3.5	0.2	—
2 043	667	1 868	38	315	—	25	8	46.5	82.6	82.6	9.8	0.3	—
4 511	89	3 197	728	350	—	219	58	39.4	71.4	71.4	10.1	0.3	—
609 444	123 101	382 727	89 959	86 835	—	26 465	5 455	36.5	67.7	71.4	4.8	0.1	—
519 120	112 477	319 911	81 943	72 413	—	22 535	4 905	36.0	63.5	59.9	1.8	0.2	—
194 390	37 665	126 702	28 322	24 968	—	7 979	1 747	37.8	60.2	55.1	1.4	0.0	—
79 586	11 193	56 910	8 624	9 850	—	2 692	435	38.8	57.4	1.2	0.8	0.1	—
2 039	639	1 207	576	153	—	87	17	35.3	58.9	57.0	0.8	0.1	—
8 343	1 347	5 718	1 107	994	—	370	30	37.5	58.4	33.5	1.3	0.3	—
704	177	431	136	68	—	31	12	35.8	84.3	61.0	3.2	0.6	—
375	200	175	144	30	—	—	6	34.3	70.0	48.0	3.0	—	—
4 420	625	3 795	448	126	—	27	187	32.4	43.4	49.5	1.1	0.3	—
76	46	40	19	6	—	—	—	38.8	29.3	30.0	—	—	—
4 271	231	3 987	197	81	—	27	11	34.1	60.4	37.2	—	—	—
4 129	137	3 060	108	971	—	29	22	40.7	57.7	57.7	2.2	0.3	—
18 671	3 113	14 920	2 364	3 113	—	661	109	36.9	56.6	60.3	1.6	0.8	—
55 498	16 803	43 651	12 348	9 576	—	3 944	940	36.9	59.4	54.1	1.6	1.0	—
265 040	61 259	154 324	43 299	41 222	—	15 766	2 776	33.7	64.9	62.2	2.0	0.3	—
50 793	3 999	36 267	2 813	8 402	—	1 053	160	33.6	61.3	60.0	1.8	0.3	—
95 963	46 794	36 267	342	57	—	24	78	34.7	56.4	38.6	2.1	0.3	—
211 706	155 186	116 516	39 918	32 619	—	14 603	2 524	33.8	66.0	62.5	2.1	1.0	—
1 578	1 258	1 093	10 322	6 444	—	2 466	356	42.0	64.7	63.9	0.6	1.3	—
59 690	46 157	38 885	10 322	6 253	—	1 496	382	42.0	64.7	63.9	2.9	1.5	—
349	153	153	129	12	—	29	—	34.1	42.0	57.1	—	—	—
59 341	45 961	38 732	10 193	6 211	—	2 945	382	42.3	68.7	62.9	2.9	1.5	—
51 987	49 155	2 892	2 214	8 453	—	570	94	40.0	54.6	49.5	1.8	0.3	—
16 479	12 379	13 314	714	3 015	—	144	7	41.8	33.3	37.1	3.4	0.3	—
17 244	855	12 991	706	2 979	—	134	7	41.9	51.3	47.4	0.9	0.8	—
13 645	13 145	500	10 414	2 432	—	56	563	41.7	32.5	51.1	0.8	0.8	—
155	19	96	13	38	—	6	—	45.6	28.7	31.6	2.8	1.0	—
3 444	308	336	2 471	509	—	72	218	42.4	52.1	47.3	—	—	—
308	18	233	8	36	—	36	—	34.4	30.0	56.9	1.6	0.4	—
34 435	32 476	26 341	1 500	5 438	—	426	87	39.2	56.2	55.6	2.1	1.7	—
1 367	67	1 300	69	89	—	7	15	39.6	50.0	80.6	2.2	4.2	—
2 979	2 863	2 087	56	481	—	6	129	31.9	94.0	80.6	22.2	50.7	—
139	136	94	3	34	—	3	—	43.0	44.0	51.5	0.8	0.1	—
30 000	28 177	22 957	1 381	4 634	—	413	87	40.4	66.2	66.2	—	—	—
38 337	30 525	23 261	5 802	5 969	—	1 705	456	38.8	55.6	71.0	1.5	2.7	—
81	81	66	—	15	—	2 008	456	36.0	56.5	56.5	1.4	0.8	—
1 403	1 146	770	206	284	—	170	16	34.4	92.6	58.8	14.8	—	—
337	13	229	13	103	—	—	—	33.9	48.3	45.0	1.3	—	—
7 863	6 930	933	5 674	1 100	—	218	33	36.5	60.7	64.1	1.2	0.9	—
3 022	2 708	1 995	709	581	—	194	—	39.2	50.1	52.5	1.5	—	—
6 316	3 207	2 533	2 573	449	—	259	259	34.7	61.8	53.9	1.8	0.8	—
19 302	16 214	11 992	2 133	3 437	—	1 201	148	35.6	55.0	57.0	1.3	0.8	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Aircraft, space vehicles, and parts												
Both sexes	Race				Black		White		Hispanic origin ¹		Median age	
	Total		Male		Male		Male		Male		Male	
	Female		Female		Female		Female		Female		Female	
Employed persons 16 years and over	825 444	646 222	179 242	575 082	150 319	38 004	18 243	36 951	12 600	37.1	85.3	82.3
Managerial and professional specialty occupations	244 149	219 155	24 994	204 170	21 928	5 106	1 608	5 597	941	42.5	98.1	96.8
Executive, administrative, and managerial occupations	82 398	69 055	13 343	65 453	11 710	1 805	914	1 822	591	45.4	98.1	96.8
Officials and administrators, public administration	5	5	5	5	5	5	5	5	5	45.4	98.1	96.8
Financial managers	2 748	2 420	328	2 326	298	29	12	55	21	46.6	98.2	97.6
Managers, marketing, advertising, and public relations	2 643	2 518	125	2 442	125	17	6	43	3	48.0	98.3	98.2
Administrators, education and related fields	100	94	6	88	6	6	6	6	6	38.1	100.0	100.0
Managers, medicine and health	6 587	5 465	1 122	5 132	996	231	85	193	53	38.9	98.0	97.1
Other specified managers	41 234	37 718	3 516	38 164	3 185	675	166	902	212	46.3	98.0	97.1
Managers and administrators, n.e.c.	40 848	37 401	3 447	35 856	3 116	675	166	874	212	48.1	98.0	97.1
Salaried	386	317	69	308	69	69	69	69	69	44.1	82.6	88.4
Self-employed	29 081	20 840	8 241	19 301	7 101	853	645	229	302	35.0	96.8	97.3
Management related occupations	10 852	7 094	3 758	6 546	3 278	250	255	224	137	39.8	98.7	97.9
Accountants and auditors	8 869	3 500	1 369	3 104	1 119	246	140	170	81	43.9	98.2	98.2
Personnel, training, and labor relations specialists	8 998	6 972	2 026	6 578	1 777	260	156	165	70	41.7	96.2	95.9
Buyers and purchasing agents	6 607	5 565	1 042	5 524	42	23	51.7	14	7	28.8	87.8	83.3
Inspectors and compliance officers	3 755	2 709	1 046	2 549	885	54	74	56	14	43.6	98.3	97.1
Other management related occupations	161 751	150 100	11 651	138 717	10 218	3 301	694	3 775	350	44.8	98.7	97.2
Professional specialty occupations	129 576	124 908	4 688	115 516	4 068	2 468	316	3 069	118	45.2	98.9	97.2
Engineers, architects, and surveyors	118	111	7	89	7	7	7	7	7	45.2	100.0	100.0
Architects	129 466	4 681	4 681	115 415	4 061	2 468	316	3 069	118	45.2	98.9	97.2
Engineers	129 466	4 681	4 681	115 415	4 061	2 468	316	3 069	118	45.2	98.9	97.2
Civil engineers	17 198	16 904	294	15 423	237	441	20	414	10	42.9	99.5	100.0
Electrical and electronic engineers	19 141	17 762	1 379	16 769	1 265	478	57	374	27	46.0	96.7	98.0
Industrial engineers	8 149	8 010	139	7 454	127	136	5	173	6	30.2	99.2	100.0
Mechanical engineers	82 830	80 031	2 799	73 887	2 382	1 370	219	2 065	76	45.7	99.3	98.4
Other engineers	12	12	12	12	12	12	12	12	12	56.4	100.0	100.0
Surveyors and mapping scientists	7 998	6 249	1 749	5 747	1 443	196	152	149	61	37.4	99.0	98.3
Computer systems analysts and scientists	5 014	4 007	1 007	3 785	899	93	44	142	36	44.8	97.2	95.3
Operations and systems researchers and analysts	1 907	1 321	586	1 176	534	49	25	38	20	42.2	98.5	96.2
Mathematical scientists	2 086	1 813	273	1 567	229	66	25	36	7	42.1	99.2	100.0
Natural scientists	919	727	192	576	167	66	12	13	7	31.4	100.0	100.0
Chemists, except biochemists	1 167	1 086	81	991	62	13	6	23	6	42.7	100.0	100.0
Other natural scientists	1 663	1 421	21	130	16	6	5	6	6	48.5	99.3	100.0
Health diagnosing occupations	668	30	638	592	580	18	18	6	13	30.4	100.0	100.0
Health assessment and treating occupations	639	13	626	13	13	13	13	6	6	48.4	100.0	98.7
Registered nurses	29	17	12	17	12	17	12	6	6	30.7	100.0	100.0
Other health assessment and treating occupations	1 665	1 592	73	1 514	71	54	—	18	—	45.3	95.5	78.1
Teachers, except postsecondary	1 663	1 454	209	1 372	187	34	10	30	—	44.0	98.9	100.0
Social scientists and urban planners	31	18	13	18	13	34	—	30	—	37.5	100.0	100.0
Social and recreation workers	562	513	49	499	49	8	—	—	—	42.9	97.8	97.8
Lawyers and judges	9 866	7 859	2 007	7 190	1 818	313	78	274	86	45.6	96.7	97.7
Writers, artists, and entertainers, and athletes	532	194	338	173	299	14	21	7	9	48.1	91.2	93.2
Other professional specialty occupations	185 964	97 642	88 322	86 893	77 068	5 787	6 898	5 005	4 804	36.4	91.0	91.5
Technical, sales, and administrative support occupations	51 581	43 862	7 719	39 512	6 619	1 800	492	1 954	397	39.5	93.2	92.2
Technicians and related support occupations	17	17	17	85	53	6	6	21	—	32.1	95.7	92.2
Health technologists and technicians	134	92	42	85	36	—	—	—	—	32.1	95.7	100.0
Licensed practical nurses	34 915	30 402	4 513	27 500	3 973	1 339	276	1 360	238	40.5	93.7	88.9
Other health technologists and technicians	10 474	9 001	1 473	8 805	680	552	49	417	26	39.7	93.9	74.5
Engineering and science technicians	1 338	1 090	248	884	311	311	3	539	49	39.0	92.4	74.0
Electrical and electronic technicians	11 276	9 325	1 951	8 322	1 540	394	103	539	49	39.0	93.3	96.3
Industrial and mechanical engineering technicians	10 827	8 976	1 851	8 387	1 613	322	121	361	82	42.2	91.0	89.9
Drafting and surveying technicians	16 515	13 368	3 147	11 907	2 593	461	210	573	159	37.6	96.3	96.7
Other engineering and science technicians	1 198	1 168	30	1 107	30	7	—	11	14	44.0	96.1	93.3
Technicians, except health, engineering, and science	1 198	1 168	30	1 107	30	7	—	11	14	44.0	96.1	93.3
Airplane pilots and navigators	8 935	6 386	2 549	5 831	1 960	248	124	244	89	54.0	88.9	88.9
Air traffic controllers and broadcast equipment operators	6 265	5 515	750	4 840	585	196	86	318	56	31.0	98.6	92.3
Computer programmers	—	—	—	—	—	—	—	—	—	—	—	—
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Aircraft, space vehicles, and parts																					
		Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed									
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female								
Boys are enumerated as men.																					
Total		White		Black		Male		Female		Male		Female		Male		Female					
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female					
Employed persons 16 years and over—Con.																					
Technical, sales, and administrative support occupations—Con.																					
Sales occupations																					
Supervisors and proprietors, sales occupations																					
Sales representatives, finance and business services																					
Sales representatives, commodities, except retail																					
Sales workers, retail and personal services																					
Cashiers																					
Other sales occupations, retail and personal services																					
Sales related occupations																					
Administrative support occupations, including clerical																					
Supervisors, administrative support occupations																					
Computer equipment operators																					
Secretaries, stenographers, and typists																					
Secretaries																					
Stenographers and typists																					
Receptionists																					
Other information clerks																					
File clerks																					
Other records processing occupations, except financial																					
Bookkeepers, accounting, and auditing clerks																					
Payroll and timekeeping clerks																					
Other financial records processing occupations																					
Telephone operators																					
Mail and message distributing occupations																					
Production coordinators and expeditors																					
Traffic, shipping, and receiving clerks																					
Stock and inventory clerks																					
Other material recording, scheduling, and distributing clerks																					
Adjusters and inspectors																					
Date-entry keyers																					
Other administrative support occupations																					
Service occupations																					
Private household occupations																					
Protective service occupations																					
Guards																					
Other protective service occupations																					
Service occupations, except protective and household																					
Food preparation and service occupations																					
Health service occupations																					
Cleaning and building service occupations, except household																					
Personal service occupations																					
Farming, forestry, and fishing occupations																					
Precision production, craft, and repair occupations																					
Mechanics and repairers																					
Supervisors, mechanics and repairers																					
Automobile mechanics, including body																					
Industrial machinery repairers																					
Electronic repairers, communications and industrial equipment																					
Heating, air conditioning, and refrigeration mechanics																					
Other mechanics and repairers																					
Construction trades																					
Supervisors, construction occupations																					
Carpenters																					
Painters, construction and maintenance																					
Electricians																					
Plumbers, pipefitters, and steamfitters																					
Other construction trades																					

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Aircraft, space vehicles, and parts												Percent self-employed		
	Race						Spanish origin ¹		Median age		Percent high school graduates				Percent completed 4 or more years of college
	Total		White		Black										
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Extrusive occupations	157	141	107	10	28	6	5	—	36.3	25.0	70.9	50.0	4.3	—	—
Extrusion production occupations	133 794	117 940	105 100	12 322	7 057	2 222	7 735	1 469	43.5	39.8	79.6	67.4	8.5	2.9	—
Supervisors, production occupations	46 313	43 365	39 904	2 538	2 027	282	1 872	196	47.2	43.6	85.9	77.6	17.5	8.4	—
Precision metalworking occupations	69 340	62 405	54 203	5 212	4 425	1 110	5 120	659	39.4	35.2	74.9	65.0	2.4	0.2	—
Tool and die makers	11 383	11 099	10 341	232	424	36	2 450	15	43.6	35.6	79.7	89.1	2.3	3.2	—
Mechanists	30 166	28 973	25 010	1 665	1 985	178	2 454	120	37.6	31.8	74.9	64.8	2.6	0.2	—
Sheet metal workers	12 140	9 841	8 602	1 911	1 985	306	856	86	40.8	33.7	70.2	63.7	1.5	0.4	—
Other precision metal workers	15 631	12 492	10 250	2 184	1 325	590	1 350	438	38.3	38.8	74.4	63.9	1.7	0.1	—
Precision textile, apparel, and furnishings machine workers	191	122	143	381	9	26	94	55	33.3	41.3	61.2	58.5	—	1.3	—
Precision food production occupations	8 012	6 556	6 111	1 208	279	179	281	141	46.4	42.0	85.3	71.6	21.2	2.4	0.4
Precision inspectors, testers, and related workers	1 895	1 780	1 624	104	50	6	76	—	46.7	46.4	83.7	94.8	26.4	37.4	—
Plant and system operators	7 074	3 174	2 684	2 851	253	574	292	613	39.2	43.0	76.6	62.9	4.1	1.1	—
Other precision production occupations															
Operators, fabricators, and laborers	187 545	144 052	121 112	33 966	13 959	6 326	13 707	4 670	37.5	38.0	71.1	63.4	3.2	1.7	0.1
Machine operators, assemblers, and inspectors	169 883	129 091	109 002	31 885	12 024	5 877	12 506	4 335	37.7	38.2	71.8	63.6	3.2	1.8	0.1
Machine operators and tenders, except precision	83 259	67 240	56 169	12 363	6 586	2 420	7 026	1 746	36.2	37.4	68.7	63.8	2.6	1.9	0.1
Metalworking and plastic working machine operators	31 537	26 798	23 502	3 797	1 962	728	2 138	439	36.9	36.7	69.8	65.0	2.5	1.9	0.1
Fabricating machine operators, n.e.c.	2 909	2 378	1 986	426	198	91	207	—	33.1	43.7	71.4	68.7	2.9	—	0.3
Metal and plastic processing and woodworking machine operators	5 106	4 668	3 668	308	622	78	604	92	35.0	35.4	61.9	68.0	2.2	3.2	0.2
Printing machine operators	1 397	893	782	389	89	95	36	35	36.6	37.9	91.2	75.6	0.9	4.0	0.7
Textile machine operators	367	191	159	148	6	20	47	6	38.1	40.4	70.2	72.7	—	—	—
Textile sewing machine operators	722	86	74	447	6	72	—	83	41.3	40.7	74.4	60.2	7.0	—	1.9
Laundry and dry cleaning machine operators	7	7	—	—	—	—	—	—	—	40.0	—	100.0	—	—	—
Packaging and filling machine operators	102	60	60	42	—	—	—	—	50.0	47.2	46.7	59.5	—	—	—
Furnace, kiln, and oven operators, except food	1 456	1 323	1 121	111	128	22	142	6	40.9	40.2	74.0	58.6	2.6	1.7	0.1
Other specified machine operators	9 537	7 379	6 055	1 690	770	289	874	218	35.7	37.4	66.3	66.6	2.8	—	—
Miscellaneous and not specified machine operators	30 119	23 464	18 762	4 998	2 805	1 025	2 978	867	35.8	36.8	68.2	60.8	2.7	2.1	0.2
Fabricators, assemblers, and hand working occupations	55 624	37 866	31 009	13 865	4 210	2 487	4 131	2 136	36.4	38.8	69.4	60.7	2.4	1.4	0.1
Welders and cutters	9 550	8 451	7 085	803	800	237	764	117	37.2	35.2	64.6	64.6	1.1	3.2	0.3
Solders and brazers	918	133	115	611	—	—	25	66	25	34.5	69.7	63.9	—	—	—
Assemblers	44 167	28 679	23 312	12 123	3 345	2 114	3 273	1 910	36.2	39.1	69.3	60.5	2.7	1.3	0.1
Hand working occupations	989	603	497	328	65	23	69	43	35.3	43.0	71.1	50.8	5.5	2.1	—
Production inspectors, testers, samplers, and weighers	31 000	23 985	21 824	5 657	1 228	970	993	453	44.2	36.8	84.1	70.1	6.2	2.5	—
Graders and sorters, except agricultural	182	66	66	88	—	—	13	8	45.0	36.8	62.1	65.5	—	—	—
Other production inspectors, testers, samplers, and weighers	30 818	23 919	21 758	5 569	1 228	942	980	445	44.2	38.7	84.2	70.2	6.2	2.6	—
Transportation and material moving occupations	7 805	7 264	5 920	418	941	96	710	43	39.4	33.2	63.2	75.4	2.7	2.0	—
Transportation occupations	3 137	2 950	2 295	156	447	26	341	5	40.1	34.1	62.1	62.1	1.6	—	—
Motor vehicle operators	3 070	2 897	2 248	152	441	16	320	5	40.1	34.8	62.0	74.0	1.6	—	—
Truck drivers	2 581	2 467	1 873	102	398	7	303	5	38.8	38.7	61.6	71.1	1.9	—	—
Driver-sales workers	84	67	61	17	6	—	—	—	44.6	36.5	73.1	58.8	—	—	—
Other motor vehicle operators	405	363	314	33	37	9	17	—	45.7	26.9	63.1	88.1	—	—	—
Rail and water transportation occupations	4 668	4 314	3 625	262	494	70	369	38	41.9	32.0	66.0	100.0	—	—	—
Material moving equipment operators	329	298	298	31	—	—	8	—	46.9	39.3	93.3	100.0	3.5	3.1	—
Supervisors, material moving equipment operators	658	656	521	2	102	—	51	—	40.7	40.0	59.3	—	16.8	—	—
Crane, hoist and winch operators	33	21	21	6	—	—	—	—	42.2	50.0	9.5	100.0	0.9	50.0	—
Excavating, grading, and dozer machine operators	3 648	3 339	2 785	223	392	64	310	38	37.5	31.3	62.7	72.2	2.8	1.6	—
Other material moving equipment operators	9 857	7 697	6 190	1 663	994	353	847	292	32.8	35.3	67.0	56.7	3.2	0.9	—
Handlers, equipment cleaners, helpers, and laborers	39	39	39	—	—	—	—	—	46.9	—	76.9	—	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	1 024	784	617	176	101	54	138	17	25.8	37.7	60.3	63.8	0.6	—	—
Helpers, craft and production	1 274	1 044	894	161	125	28	98	33	32.7	29.6	73.9	71.3	10.2	0.9	—
Construction laborers	564	477	329	62	111	10	44	15	32.9	42.2	58.1	67.8	2.5	5.7	—
Freight, stock, and material handlers	1 829	1 178	829	528	178	95	112	118	38.0	35.9	70.4	47.2	2.5	2.0	—
Garage and service station occupations, and equipment cleaners	4 903	3 989	3 226	709	461	166	455	91	33.0	37.5	65.8	57.2	3.1	—	0.1
Hand packers and packagers															
Laborers, except construction															

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States									
	Other transportation equipment									
	Race									
	Total		White		Black		Spanish origin ¹		Median age	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	431 845	377 095	54 770	44 884	48 868	7 845	23 905	2 651	34.8	33.6
Managerial and professional specialty occupations	46 956	41 723	5 233	4 740	1 345	349	974	135	40.8	36.0
Executive, administrative, and managerial occupations	25 392	21 447	3 945	3 590	1 490	239	556	93	41.6	36.4
Officials and administrators, public administration	704	572	132	127	22	—	4	—	36.9	34.6
Financial managers	1 461	1 344	117	110	14	—	7	—	37.6	38.6
Managers, marketing, advertising, and public relations	73	75	—	—	—	—	—	—	41.5	—
Administrators, education and related fields	1 598	1 309	289	275	47	7	57	5	41.5	34.7
Managers, medicine and health	13 829	12 336	1 493	1 412	171	44	324	18	43.2	38.6
Other specified managers	12 824	11 461	1 363	1 282	157	44	321	9	43.3	38.4
Managers and administrators, n.e.c.	1 005	875	130	130	14	—	13	9	41.4	40.3
Self-employed	7 727	5 813	1 914	1 666	236	188	154	70	39.4	34.9
Management related occupations	2 714	2 119	795	775	77	100	74	27	37.2	34.6
Accountants and auditors	1 473	1 046	427	369	95	46	28	19	40.2	36.0
Personnel, training, and labor relations specialists	2 326	1 792	534	506	51	8	38	19	40.3	35.0
Buyers and purchasing agents	391	361	30	16	6	—	7	—	41.3	30.0
Inspectors and compliance officers	623	495	128	112	7	6	7	24	42.6	37.5
Other management related occupations	21 564	20 276	1 288	1 150	855	110	418	42	39.9	34.6
Professional specialty occupations	15 859	15 551	308	273	483	24	348	15	40.0	30.6
Engineers, architects, and surveyors	15 199	15 199	—	—	19	—	—	—	36.7	30.6
Architects	15 632	15 330	302	267	464	24	348	15	40.1	30.6
Engineers	487	487	—	—	—	—	30	—	35.1	—
Civil engineers	1 719	1 692	27	23	49	—	13	—	39.9	30.3
Electrical and electronic engineers	3 353	3 240	113	101	151	12	53	9	39.3	31.6
Industrial engineers	2 814	2 774	40	40	71	—	78	—	40.5	26.5
Mechanical engineers	7 259	7 137	122	103	193	12	174	6	40.6	29.9
Other engineers	28	22	6	6	—	—	—	—	45.0	30.0
Surveyors and mapping scientists	546	428	118	105	11	13	11	4	36.6	35.5
Computer systems analysts and scientists	526	426	93	93	28	7	—	—	42.4	36.2
Operations and systems researchers and analysts	93	68	25	25	5	—	—	—	40.7	34.4
Mathematical scientists	626	584	42	476	48	13	18	—	38.4	35.0
Natural scientists	312	280	32	206	44	13	8	—	37.2	35.0
Chemists, except biochemists	314	304	10	270	4	—	10	—	39.2	35.0
Other natural scientists	37	37	—	30	—	—	—	—	53.3	—
Health diagnosing occupations	324	34	276	268	15	8	4	—	40.7	42.8
Health assessment and treating occupations	305	34	271	263	8	8	4	—	42.7	42.6
Registered nurses	19	14	5	5	7	—	—	—	35.0	60.0
Other health assessment and treating occupations	652	645	7	7	85	—	8	—	42.7	30.0
Teachers, except postsecondary	141	98	43	43	—	—	—	—	41.2	37.0
Social scientists and urban planners	22	15	7	7	—	—	—	—	65+	60.0
Lawyers and judges	160	148	12	136	12	9	6	—	37.5	38.3
Writers, artists, entertainers, and athletes	2 445	2 160	305	262	153	36	23	23	39.4	32.0
Other professional specialty occupations	113	68	45	45	15	—	—	—	40.0	32.9
Technical, sales, and administrative support occupations	56 290	31 093	25 197	22 125	2 686	2 356	1 131	787	38.6	33.6
Technicians and related support occupations	11 818	10 586	1 232	1 041	546	121	483	49	37.9	33.2
Health technologists and technicians	295	195	100	82	23	13	32	10	30.9	30.9
Licensed practical nurses	64	51	38	38	—	—	13	5	30.0	40.0
Other health technologists and technicians	231	182	49	44	23	—	19	5	31.1	32.2
Engineering and science technicians	9 634	8 911	723	607	439	78	363	29	38.3	32.3
Electrical and electronic technicians	1 868	1 780	88	63	127	19	48	5	37.5	34.2
Industrial and mechanical engineering technicians	326	303	23	23	32	—	4	—	38.2	32.2
Drafting and surveying technicians	3 947	3 536	411	352	152	27	208	14	34.8	31.7
Other engineering and science technicians	3 493	3 292	201	169	128	32	103	10	41.6	32.2
Technicians, except health, engineering, and science	1 889	1 480	409	352	84	30	68	10	36.7	33.7
Airplane pilots and navigators	63	6	—	—	—	—	—	—	36.8	50.0
Air traffic controllers and broadcast equipment operators	57	37	—	—	—	—	—	—	55.6	—
Computer programmers	806	577	209	180	23	16	28	2	33.8	31.1
Other technicians, except health, engineering, and science	935	761	194	166	61	14	40	8	39.9	37.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Other transportation equipment

United States	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male										
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations																
Salaries																
Self-employed																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Secretaries																
Stenographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adjusters and investigators																
Date-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Guards																
Other protective service occupations																
Service occupations, except protective and household																
Food preparation and service occupations																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automobile mechanics, including body																
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

United States													
Employed persons 16 years and over—Con.													
Percent completed 4 or more years of college													
Percent self-employed													
Median age													
Spanish origin ¹													
Percent high school graduates													
Male													
Female													
Total													
Both sexes													
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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other durable goods									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	1 473 054	852 467	620 587	732 590	510 361	66 092	73 999	63 907	35.6	74.7
Managerial and professional specialty occupations	243 405	197 693	45 712	187 126	42 034	1 884	5 415	1 719	36.3	95.0
Executive, administrative, and managerial occupations	156 430	124 167	32 263	118 625	29 812	1 289	3 657	1 223	40.5	93.5
Financial managers	6 576	5 201	1 375	5 033	75	57	118	37	38.7	98.9
Managers, marketing, advertising, and public relations	18 774	16 424	2 350	16 091	2 266	40	153	64	37.2	97.7
Administrators, education and related fields	1 187	147	40	138	35	5	5	—	49.8	87.9
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Other specified managers	6 287	4 645	1 642	4 255	226	88	206	107	41.6	95.2
Managers and administrators, n.e.c.	93 676	78 297	15 379	75 107	14 212	507	2 592	628	43.3	91.5
Self-employed	86 332	72 631	13 701	69 667	12 742	480	2 357	574	43.1	92.0
Management related occupations	7 344	5 666	1 678	5 440	83	27	235	54	45.9	84.6
Accountants and auditors	30 928	19 451	11 477	18 035	10 431	592	583	387	37.5	96.1
Personnel, training, and labor relations specialists	14 095	8 686	5 409	7 989	4 854	261	237	168	34.4	98.7
Buyers and purchasing agents	8 277	5 380	2 401	2 820	321	175	167	124	39.1	90.8
Inspectors and compliance officers	299	198	101	517	213	132	152	69	33.8	95.7
Other management related occupations	2 593	1 924	669	1 873	18	24	27	26	41.1	93.9
Professional specialty occupations	86 975	73 526	13 449	68 469	12 222	595	1 758	496	38.0	97.7
Engineers, architects, and surveyors	50 810	48 334	2 476	45 035	2 140	147	920	93	31.5	98.7
Architects	50 156	48 187	2 453	44 915	2 117	147	907	93	31.5	98.7
Engineers	539	515	24	8 905	196	18	179	14	34.5	99.4
Electrical and electronic engineers	9 829	9 691	248	11 773	1 173	288	246	36	33.2	98.0
Industrial engineers	13 099	11 792	1 307	5 612	37	88	108	—	41.3	98.2
Mechanical engineers	5 951	5 906	45	18 757	700	45	362	34	38.9	99.0
Other engineers	21 112	20 283	829	14	—	—	—	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	3 813	3 103	710	2 897	640	38	64	13	33.9	98.9
Operations and systems researchers and analysts	2 063	1 591	472	1 499	38	38	33	11	37.4	97.5
Mathematical scientists	432	280	152	4 074	943	17	103	27	40.9	100.0
Natural scientists	5 543	4 442	1 101	2 848	692	114	74	21	35.6	99.0
Chemists, except biochemists	3 907	3 137	770	2 226	251	33	29	6	36.3	99.7
Other natural scientists	1 636	1 305	331	280	63	—	6	—	43.6	100.0
Health diagnosing occupations	363	300	63	92	962	21	20	—	32.8	95.8
Health assessment and treating occupations	1 109	120	878	50	851	12	12	—	32.9	100.0
Registered nurses	940	62	878	50	851	12	12	—	32.9	98.5
Other health assessment and treating occupations	169	58	111	42	111	9	8	—	32.7	91.4
Teachers, except postsecondary	1 303	776	527	701	474	20	51	30	33.9	81.7
Social scientists and urban planners	2 930	2 259	691	2 132	677	6	23	—	37.0	98.9
Social and recreation workers	201	777	124	700	118	6	—	—	34.4	84.4
Lawyers and judges	839	777	82	720	36	6	—	—	42.5	100.0
Writers, artists, entertainers, and athletes	17 031	11 300	5 731	10 526	5 284	210	518	307	39.1	93.0
Other professional specialty occupations	518	187	331	180	298	20	—	9	40.0	96.3
Technical, sales, and administrative support occupations	344 434	155 267	189 167	139 377	169 670	12 185	7 826	10 167	33.5	88.0
Technicians and related support occupations	59 943	46 609	13 334	42 044	11 387	911	1 990	963	34.7	93.6
Health technicians and technicians	2 905	2 018	887	1 833	767	42	83	131	32.5	82.3
Licensed practical nurses	1 122	26	96	20	89	6	—	—	32.6	87.5
Other health technicians and technicians	2 783	1 992	791	1 813	678	35	83	131	34.9	82.4
Engineering and science technicians	39 921	31 182	8 739	27 995	7 508	582	1 449	655	32.3	94.3
Electrical and electronic technicians	12 807	11 425	1 382	10 743	1 181	57	531	137	30.3	96.4
Industrial and mechanical engineering technicians	9 939	8 841	98	763	86	—	30	7	34.9	92.0
Drafting and surveying technicians	10 612	9 007	1 605	8 177	1 541	13	489	79	32.7	94.5
Other engineering and science technicians	15 563	9 909	5 654	9 012	4 700	460	399	432	34.2	92.0
Technicians, except health, engineering, and science	17 117	13 409	3 708	12 216	3 112	472	458	177	32.5	93.5
Airplane pilots and navigators	116	99	17	91	8	—	3	—	30.9	94.0
Air traffic controllers and broadcast equipment operators	5 899	4 324	1 575	4 040	1 357	8	78	21	34.6	76.8
Computer programmers	10 884	8 768	2 116	7 867	1 738	225	377	156	31.1	98.6
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	33.4	91.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																				
Race										Other durable goods										
Total			White		Black		Spanish origin ¹			Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over—Con.																				
Technical, sales, and administrative support occupations—Con.																				
Sales occupations																				
63 436	50 750	12 686	48 935	11 410	1 105	770	1 036	702	39 3	33 1	93 7	86 7	43 8	24 6	8 2	7 6				
5 495	4 512	1 183	4 252	1 041	120	107	229	93	39 9	37 1	89 7	83 6	32 9	25 4	16 4	18 3				
4 687	3 745	942	3 540	816	87	107	209	83	39 0	35 3	90 8	79 9	33 9	22 2						
1 008	767	241	692	225	33	33	20	10	46 1	43 5	84 1	77 9	28 3	37 8	96 6	89 6				
Self-employed																				
867	625	242	401	237	24	5	3	—	46 3	33 4	86 7	80 2	45 3	31 4	12 6	8 3				
Sales representatives, finance and business services																				
54 730	44 799	9 931	43 368	9 033	880	526	789	512	39 3	32 8	94 4	88 1	45 3	26 2	7 3	7 1				
Sales representatives, commodities, except retail																				
1 934	1 200	734	634	969	81	132	15	97	34 0	31 6	94 4	78 9	22 1	10 0	5 9	1 6				
Sales workers, retail and personal services																				
951	142	809	91	616	43	103	15	92	32 4	29 4	75 9	75 6	17 6	4 4	13 4	1 7				
Cashiers																				
983	592	391	543	353	38	29	10	5	32 4	29 4	86 5	85 7	23 1	21 5	4 1	1 3				
Other sales occupations, retail and personal services																				
210	80	130	80	130					30 6	37 3	62 5	89 2	33 0	37 3						
Administrative support occupations, including clerical																				
221 055	163 147	57 908	48 398	146 873	6 237	10 504	4 800	8 502	33 6	33 8	78 6	88 0	13 3	5 7	0 4	0 5				
13 515	7 546	5 969	6 863	5 486	393	275	453	370	39 9	38 4	88 2	92 3	21 3	8 1	0 3	0 7				
58 402	46 774	11 628	2 317	5 978	195	423	277	277	30 3	30 2	97 1	92 9	13 1	7 3	0 6	0 2				
Computer equipment operators																				
51 415	40 529	10 886	44 2	47 971	7	81	1	855	34 3	33 4	91 7	94 7	25 0	5 3	0 9	0 4				
Secretaries, stenographers, and typists																				
6 987	4 971	2 016	118	4 002	29	639	13	387	32 2	31 3	66 0	88 4	7 5	3 0	1 1	0 1				
Stenographers and typists																				
3 802	2 261	1 541	173	3 375	46	217	5	321	29 0	30 1	89 8	88 8	36 7	5 2	0 2	0 2				
Receptionists																				
1 242	726	516	427	3 304	79	477	7	79	42 7	32 8	88 5	86 9	31 9	6 3	5 8	0 6				
Other information clerks																				
5 434	4 052	1 382	1 446	5 585	334	772	118	371	34 1	33 9	83 9	73 9	13 8	4 8	0 4	0 6				
File clerks																				
8 552	6 659	2 893	1 773	19 167	86	871	155	793	35 9	37 6	75 6	82 7	13 2	6 9	1 2	0 2				
Other records processing occupations, except financial																				
22 763	2 033	20 730	1 773	19 167	86	871	155	793	35 9	37 6	91 0	91 0	31 3	7 3	1 2	1 4				
Bookkeepers, accounting, and auditing clerks																				
3 092	344	2 748	2 511	344	38	224	14	71	35 0	35 6	83 7	88 5	5 2	4 0	0 5	0 5				
Payroll and timekeeping clerks																				
3 682	469	3 213	358	2 854	76	224	14	194	39 1	34 2	83 8	90 4	14 1	3 8	1 7	0 1				
Other financial records processing occupations																				
1 993	62	1 331	44	1 394	18	93	10	84	36 1	38 3	53 2	84 8	22 6	0 5	—	—				
Telephone operators																				
2 956	1 304	1 652	993	1 394	188	147	136	103	28 9	31 0	68 3	71 9	5 6	4 9	—	—				
Mail and message distributing occupations																				
13 635	6 710	6 925	6 154	6 766	352	504	379	392	34 0	33 6	88 0	82 1	17 0	6 9	0 1	0 2				
Production coordinators and expeditors																				
20 824	15 061	5 763	11 461	4 302	2 424	496	2 041	517	30 7	35 3	65 4	68 6	3 5	1 8	0 3	0 1				
Traffic, shipping, and receiving clerks																				
14 969	8 785	6 184	7 358	5 405	1 002	546	612	297	32 5	32 8	73 3	78 4	7 0	4 1	0 2	0 2				
Stock and inventory clerks																				
1 860	936	924	724	1 133	133	240	61	45	36 2	36 2	77 6	62 1	13 6	6 6	0 4	0 4				
Other material recording, scheduling, and distributing clerks																				
3 743	1 414	2 329	1 213	1 116	126	258	63	43	34 8	31 0	94 9	93 5	31 3	12 6	1 1	0 2				
Adjusters and investigators																				
6 596	6 355	2 241	4 140	2 215	86	742	456	343	35 2	34 7	89 3	90 8	20 0	31 0	2 8	0 4				
Date-entry keyers																				
27 116	5 839	21 277	4 939	18 600	586	1 716	456	1 546	35 2	34 7	81 5	82 9	17 9	5 6	0 4	0 6				
Other administrative support occupations																				
Service occupations																				
29 121	23 121	6 000	18 043	4 229	3 744	1 454	2 461	506	42 8	40 9	46 4	51 6	3 4	2 5	0 3	1 3				
Private household occupations																				
4 992	4 471	521	3 834	389	542	113	147	13	53 3	34 4	—	—	—	—	—	—				
Protective service occupations																				
4 593	4 125	468	3 505	351	525	98	147	13	54 7	33 7	57 4	72 6	3 8	4 8	—	—				
Guard																				
399	346	53	329	38	17	15	—	—	41 6	49 0	81 8	71 7	4 3	3 8	—	—				
Other protective service occupations																				
24 129	18 650	5 479	14 209	3 840	3 202	1 341	2 314	493	40 5	41 7	43 7	47 6	2 5	2 2	0 4	1 5				
Food preparation and service occupation																				
1 746	1 167	579	1 378	946	163	180	82	56	36 6	42 8	76 1	70 4	28 9	3 6	2 3	1 9				
Health service occupations																				
562	197	365	139	274	21	86	25	29	36 8	40 4	42 9	43 7	12 8	2 0	0 3	1 6				
Cleaning and building service occupations, except household																				
20 970	17 531	3 439	13 424	2 265	2 957	947	2 170	363	41 0	41 5	64 4	53 0	14 3	1 2	2 3	3 1				
Personal service occupations																				
851	343	508	268	355	61	128	37	45	32 2	40 2	—	—	—	—	—	—				
Farming, forestry, and fishing occupations																				
833	654	179	449	119	160	37	86	25	33 9	34 6	41 4	53 6	1 7	—	4 9	—				
Precision production, craft, and repair occupations																				
253 730	196 018	57 712	173 484	46 752	12 342	5 865	15 968	6 734	38 2	37 1	72 7	60 9	7 8	4 4	3 9	3 7				
47 038	41 006	6 032	35 764	5 023	3 125	715	3 095	431	35 6	36 0	70 5	59 8	4 4	3 4	2 0	1 6				
Mechanics and repairers																				
1 904	866	38	776	134	129	33	143	44	42 2	34 3	77 1	100 0	9 5	—	—	—				
Supervisors, mechanics and repairers																				
17 469	15 863	1 606	14 239	1 387	1 078	111	894	99	33 6	39 6	66 7	41 3	3 0	0 5	2 3	9 3				
Automobile mechanics, including body																				
Industrial machinery repairers																				
1 245	1 098	147	1 008	112	77	40	53	27	31 1	34 6	89 4	82 3	5 8	7 5	1 0	—				
Electronic repairers, communications and industrial equipment																				
590	586	4	475	11	47	18	53	27	37 1	50 0	72 7	50 0	2 4	2 4	—	—				
Heating, air conditioning, and refrigeration mechanics																				
25 502	21 320	4 182	18 388	3 440	1 767	553	1 908	305	35 4	35 7	72 5	61 3	5 7	4 5	3 3	1 8				
Other mechanics and repairers																				
18 503	16 821	1 682	14 489	1 273	1 290	246	1 640	244	36 5	34 6	66 1	54 8	3 1	4 2	2 7	2 9				
Construction trades																				
3 892	3 775	117	3 167	78	292	26	32	6	45 0	42 5	67 3	48 1	14 0	—	7 9	—				
Supervisors, construction occupations																				
682	655	27	598	10	30	1	32	10	38 9	37 7	55 3	51 3	3 7	2 3	4 7	5 1				
Carpenters																				
6 384	5 923	461	5 303	323	388	90	240	70	36 1	37 1	81 3	65 5	2 2	3 5	0 5	1 3				
Electricians																				
2 637	1 813	824	1 294	672	213	77	492	192	31 6	33 5	46 7	47 6	2 7	3 4	0 9	4 4				
Painters, construction and maintenance																				
1 996	1 946	50	1 741	23	136	12	52	12	41 0	41 0	70 0	70 0	0 9	—	6 5	8 8				
Plumbers, pipefitters, and steamfitters																				
2 912	2 709	203	2 386	157	231	40	199	12	32 8	32 5	60 5	58 6	3 4	—	6 0	—				
Other construction trades																				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con. For definitions of terms, see appendix A) [Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction.]

United States									
Other durable goods									
Races									
Total		White		Black		Spanish origin ¹		Median age	
Both sexes	Male	Female	Male	Female	Male	Male	Female	Male	Female
Employed persons 16 years and over—Con.									
Extraneous occupations	141	43	81	29	10	13	—	32.2	40.0
Precision production, craft, and repair occupations—Con.									
Precision production occupations	188 028	138 093	172 950	40 425	7 917	11 220	6 059	39.2	37.3
Supervisors, production occupations	78 545	60 881	54 610	14 648	3 841	4 044	2 055	41.3	40.0
Precision metalworking occupations	64 257	52 479	46 698	9 504	2 536	5 006	1 476	37.7	36.1
Tool and die makers	9 361	9 143	8 814	1 69	1 89	2 06	28	45.2	35.1
Machinists	25 605	23 312	20 331	1 682	1 676	1 816	318	37.8	35.1
Sheet metal workers	2 650	2 558	2 301	71	131	180	18	34.9	31.6
Other precision metal workers	26 641	17 466	15 252	7 582	540	2 661	112	37.0	36.5
Precision textile, apparel, and furnishings machine workers	3 988	1 456	1 089	844	205	84	13	38.3	40.3
Precision food production occupations	428	282	193	80	47	84	13	40.0	39.2
Precision inspectors, testers, and related workers	4 125	1 344	1 177	2 065	89	77	324	36.5	36.5
Plant and system operators	3 451	3 230	2 927	197	174	83	10	41.3	37.6
Other precision production occupations	33 234	18 421	16 256	12 087	1 025	1 662	1 624	34.0	33.9
Operators, fabricators, and laborers	601 531	279 714	214 111	247 557	40 156	42 243	44 756	32.1	37.1
Machine operators, assemblers, and inspectors	494 508	215 170	167 591	215 976	27 481	32 772	38 344	32.4	37.3
Machine operators and tenders, except precision	252 255	129 580	99 292	92 492	17 836	21 149	19 379	33.1	37.3
Metalworking and plastic working machine operators	33 943	23 566	19 600	8 674	1 843	3 435	1 214	34.5	38.3
Fabricating machine operators, n.e.c.	2 307	1 957	1 600	357	78	140	161	31.0	37.0
Metal and plastic processing and woodworking machine operators	18 178	11 216	9 100	5 551	1 360	1 071	598	32.6	38.3
Printing machine operators	4 890	2 821	2 069	1 781	225	296	163	37.8	33.8
Textile machine operators	2 154	917	657	973	174	141	89	30.7	36.1
Textile sewing machine operators	15 982	1 369	1 413	10 637	242	2 027	413	35.5	39.2
Laundry and dry cleaning machine operators	140	25	25	76	33	—	12	45.1	32.0
Packaging and filling machine operators	3 765	770	527	2 995	148	209	244	28.1	39.8
Food, feed, and other operators, except food	2 050	1 779	1 464	337	221	132	12	38.4	32.6
Other specified machine operators	32 320	20 359	16 098	10 348	2 543	2 846	1 633	32.8	35.0
Miscellaneous and not specified machine operators	135 526	65 801	47 805	50 626	11 002	12 466	12 639	32.6	37.2
Fabricators, assemblers, and hand working occupations	192 114	69 123	54 113	95 777	8 438	10 286	15 932	30.3	36.6
Welders and cutters	18 232	14 799	11 734	2 764	1 967	1 999	434	31.6	34.8
Solders and brazers	4 327	727	527	3 022	12	172	488	30.8	38.4
Assemblers	160 726	48 345	37 373	87 067	5 985	7 351	14 494	29.5	36.4
Hand working occupations	8 627	5 232	4 386	2 894	474	764	516	34.0	35.5
Production inspectors, testers, samplers, and weighers	50 139	16 467	14 186	27 007	1 297	1 337	3 093	36.0	39.8
Graders and sorters, except agricultural	1 758	531	410	929	62	81	196	37.7	35.7
Other production inspectors, testers, samplers, and weighers	48 381	15 936	13 776	26 778	1 145	1 256	2 837	35.9	39.9
Transportation and material moving occupations	28 801	25 176	18 845	2 783	4 831	2 794	492	32.8	32.8
Transportation occupations	12 389	11 907	8 949	352	2 265	1 202	34	32.8	31.8
Motor vehicle operators	12 491	11 818	8 880	543	2 245	1 202	34	32.8	31.8
Truck drivers	11 443	10 899	8 264	431	2 032	1 042	24	32.8	31.8
Driver-sales workers	300	234	184	50	166	8	—	33.7	33.9
Other motor vehicle operators	748	685	432	54	186	136	10	33.7	33.9
Rail and water transportation occupations	16 212	13 268	9 876	2 231	2 566	1 592	458	30.1	33.0
Material moving equipment operators	421	388	316	27	16	17	—	34.3	31.8
Supervisors, material moving equipment operators	793	732	516	119	239	77	—	40.9	38.9
Crane, hoist, and winch operators	152	137	115	15	18	7	—	45.8	39.4
Excavating, grading, and dozer machine operators	14 846	11 972	8 895	2 177	2 293	1 494	458	37.2	32.9
Other material moving equipment operators	78 222	39 348	27 675	28 798	7 844	6 677	5 920	29.6	36.1
Handlers, equipment cleaners, helpers, and laborers	191	170	146	8	24	—	—	45.4	40.0
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	2 760	2 172	1 310	449	436	541	163	30.0	35.4
Helpers, craft and production	587	487	362	56	106	55	14	30.1	34.8
Construction laborers	8 423	5 817	4 497	1 978	1 063	684	233	28.5	35.8
Freight, stock, and material handlers	1 620	1 121	872	411	154	173	57	25.1	38.5
Garage and service station occupations, and equipment cleaners	29 950	7 864	5 622	16 426	1 319	3 630	271	37.6	37.6
Hand packers and packagers	34 691	21 787	14 866	9 470	4 742	3 703	1 823	30.1	34.2
Laborers, except construction									
Persons of Spanish origin may be of any race.									

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	United States																
	Transportation, communications, and other public utilities																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	7 087 455	5 334 490	1 752 945	4 537 620	1 446 084	587 287	239 996	267 639	82 714	38.7	33.9	76.4	89.0	11.2	10.4	3.5	1.0
Managerial and professional specialty occupations	936 109	732 646	203 463	481 010	178 424	30 397	18 059	22 112	7 365	40.9	35.2	92.3	93.9	38.1	27.0	2.9	1.7
Executive, administrative, and managerial occupations	614 376	470 646	143 730	440 061	127 266	18 756	11 687	14 375	5 117	43.4	38.3	90.3	92.9	33.0	20.2	3.9	2.0
Officials and administrators, public administration	1 428	1 065	333	925	338	16	16	26	11	49.3	48.6	92.9	85.4	21.6	17.9	—	—
Financial managers	14 756	11 515	3 241	10 885	2 875	312	287	367	154	40.7	37.5	97.4	94.4	59.3	20.6	0.1	0.1
Financial managers, advertising, and public relations	29 241	24 440	4 801	23 632	4 456	353	223	629	258	41.6	33.1	97.1	96.5	45.3	39.1	0.9	1.3
Administrators, education and related fields	687	499	188	435	158	59	24	629	258	43.9	32.9	94.4	86.7	33.7	28.7	3.2	3.2
Managers, medicine and health	52 515	33 936	18 579	32 009	17 418	1 320	739	832	376	48.8	49.0	91.4	85.2	25.9	9.5	0.7	0.2
Other specified managers	392 524	317 316	75 208	298 054	67 779	11 364	5 498	9 598	2 587	43.7	38.6	88.6	92.7	29.6	18.3	5.4	3.4
Managers and administrators, n.e.c.	372 032	300 002	72 030	281 941	64 712	10 655	5 458	8 939	2 481	43.7	38.3	89.5	93.1	30.6	14.1	98.2	79.6
Salaried	20 492	17 314	3 178	16 113	3 067	709	401	639	106	44.7	46.1	72.7	82.7	13.9	15.5	—	—
Self-employed	123 225	81 875	41 350	74 121	34 262	5 222	4 900	2 912	1 728	40.1	34.0	93.4	96.2	41.8	26.2	0.8	0.4
Management related occupations	54 687	33 304	21 383	30 211	17 623	1 618	2 267	1 318	1 025	36.9	33.1	90.6	95.8	29.2	20.8	0.5	0.5
Accountants and auditors	33 885	21 723	12 162	19 544	9 969	1 801	727	748	475	43.0	36.4	90.7	95.3	26.9	20.8	0.6	0.6
Personnel, training, and labor relations specialists	9 815	7 603	2 212	7 097	1 940	332	210	236	66	41.7	34.5	92.5	94.4	31.2	17.9	0.9	0.9
Buyers and purchasing agents	10 760	10 101	6 559	8 757	5 448	1 036	95	403	32	42.1	32.2	79.5	90.4	19.3	32.2	0.1	0.1
Inspectors and compliance officers	14 078	9 144	4 934	8 512	4 182	435	601	207	130	39.5	33.6	96.4	97.3	48.8	23.8	2.5	0.7
Other management related occupations	321 733	262 000	59 733	240 949	51 138	11 641	6 372	7 737	2 248	35.3	31.2	95.8	96.2	47.3	43.3	1.1	1.1
Professional specialty occupations	147 480	135 650	11 830	125 601	10 076	4 331	1 319	3 516	2 460	37.2	32.0	96.0	97.2	49.3	32.5	0.6	0.2
Engineers, architects, and surveyors	145 135	133 470	11 883	123 587	9 771	4 300	1 319	3 398	2 453	39.2	32.4	96.4	97.3	49.4	32.4	—	—
Architects	87 877	76 180	9 110	70 698	7 759	2 614	1 028	1 961	398	38.8	31.8	97.9	97.6	46.8	29.2	0.3	0.1
Civil engineers	85 243	76 485	9 110	70 698	7 759	2 614	1 028	1 961	398	38.8	31.8	97.9	97.6	46.8	29.2	0.3	0.1
Electrical and electronic engineers	4 943	6 715	254	6 212	486	275	65	101	17	41.3	31.8	96.2	97.7	45.1	31.4	0.1	—
Industrial engineers	4 943	6 715	254	6 212	486	275	65	101	17	41.3	31.8	96.2	97.7	45.1	31.4	0.1	—
Mechanical engineers	27 843	26 460	1 183	24 776	1 004	620	155	786	29	36.7	29.7	96.8	100.0	67.3	39.4	0.4	—
Other engineers	21 199	1 137	62	1 062	49	31	13	40	—	39.8	32.4	94.1	83.9	16.6	27.4	2.6	—
Surveyors and mapping scientists	12 947	9 475	3 472	8 667	2 933	487	326	292	91	34.5	31.6	98.3	98.8	54.6	48.4	0.3	0.4
Computer systems analysts and scientists	7 033	5 087	1 946	4 624	1 618	296	211	133	32	38.1	32.0	97.4	97.5	44.0	31.2	0.3	0.5
Operations and systems researchers and analysts	2 388	1 379	1 987	7 271	1 828	64	130	144	21	34.0	30.2	98.2	97.2	43.9	43.1	0.6	0.4
Mathematical scientists	4 558	8 062	1 496	2 450	1 313	224	116	144	21	34.8	30.4	99.4	98.3	64.0	72.0	0.8	0.8
Natural scientists	5 328	3 411	1 717	4 404	657	113	47	109	8	33.5	29.9	97.3	96.8	62.2	52.3	1.1	0.8
Chemists, except biochemists	6 219	4 528	1 917	4 480	77	16	14	158	29	37.1	38.9	96.6	97.2	76.3	48.1	1.0	0.9
Other natural scientists	6 219	4 528	1 917	4 480	77	16	14	158	29	37.1	38.9	96.6	97.2	76.3	48.1	1.0	0.9
Health diagnosing occupations	7 744	4 192	1 580	7 159	1 303	219	219	25	25	39.7	45.8	89.7	98.5	15.2	25.8	3.6	0.9
Health assessment and treating occupations	4 596	3 878	718	3 718	693	116	116	158	4	26.8	28.6	97.0	95.8	14.5	14.1	0.9	1.0
Registered nurses	8 663	5 691	2 972	5 202	2 483	301	411	176	26	39.0	33.8	93.0	96.5	27.3	32.4	5.0	2.0
Other health assessment and treating occupations	8 724	5 997	2 777	5 483	2 283	304	371	127	92	34.6	31.4	99.5	97.5	68.3	50.4	0.6	0.1
Teachers, except postsecondary	7 055	318	387	2 779	289	33	143	7	42	44.9	33.7	98.1	85.0	39.6	23.5	0.6	1.8
Social scientists and urban planners	5 648	4 721	927	4 598	762	109	77	64	34	39.4	31.9	99.9	98.6	98.1	89.0	1.5	1.8
Social and recreation workers	109 010	79 620	29 320	72 363	25 460	5 004	2 753	3 005	1 311	31.3	29.8	93.9	95.5	39.7	47.9	2.0	1.7
Lawyers and judges	2 618	1 310	1 308	1 034	1 000	223	242	78	62	34.7	33.3	90.5	93.0	33.0	27.3	2.4	—
Writers, artists, entertainers, and athletes	2 521 707	1 261 272	1 260 435	1 078 978	1 038 539	135 184	174 774	61 851	60 076	39.5	33.8	88.6	91.2	14.6	8.0	0.6	0.5
Other professional specialty occupations	220 095	187 407	32 488	172 782	27 402	8 837	3 670	5 780	1 644	36.3	30.9	95.0	94.6	26.8	25.1	0.9	0.5
Technical, sales, and administrative support occupations	10 634	7 974	2 660	7 169	2 469	587	145	200	74	27.1	29.1	87.9	91.4	9.2	11.5	1.4	1.2
Technicians and related support occupations	10 383	7 892	2 491	7 103	2 314	571	131	200	72	27.0	28.7	88.1	91.6	9.3	11.8	1.3	1.2
Health technicians and technicians	72 303	59 975	12 328	53 760	10 296	3 825	1 418	2 402	785	35.0	31.6	93.2	94.2	13.5	14.7	0.3	0.3
Engineering and science technicians	27 246	25 472	1 774	22 875	1 473	1 563	221	892	111	35.6	31.0	95.0	93.4	10.4	17.5	0.2	0.4
Electrical and electronic technicians	1 212	1 088	1 124	1 016	1 078	49	4	7	42	37.3	29.5	83.3	95.2	31.4	20.2	—	—
Industrial and mechanical engineering technicians	23 910	17 514	6 396	15 305	5 381	1 259	702	959	399	33.7	31.8	93.0	94.3	10.6	9.1	0.4	0.3
Drafting and surveying technicians	19 935	15 901	4 034	14 564	3 334	954	491	513	270	35.5	31.8	91.2	94.3	20.3	22.2	0.3	0.3
Other engineering and science technicians	137 158	119 458	17 707	700 944	14 737	4 425	2 107	3 178	785	37.6	30.6	96.4	95.4	34.7	34.4	1.1	0.6
Technicians, except health, engineering, and science	58 938	58 231	7 707	56 994	683	503	109	3	43	40.0	32.6	97.7	95.0	48.5	32.6	1.9	0.7
Airplane pilots and navigators	16 857	13 995	2 862	12 679	2 355	955	382	416	92	34.7	29.1	92.2	88.5	19.6	21.7	1.0	0.4
Air traffic controllers and broadcast equipment operators	22 537	14 679	7 858	13 051	6 672	904	762	499	301	31.9	29.9	99.3	98.4	48.4	49.4	0.3	0.3
Computer programmers	38 826	32 553	6 273	29 129	5 027	2 063	944	1 319	349	36.5	31.8	94.7	95.0	10.3	20.7	0.2	0.2
Other technicians, except health, engineering, and science																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Transportation, communications, and other public utilities											
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	215 920	108 240	99 202	96 307	5 953	7 733	4 317	4 328	39.3	34.4	90.1	93.5
Services	12 128	9 934	9 243	2 007	329	128	496	132	40.9	34.8	87.1	91.1
Supervisors and proprietors, sales occupations	11 569	9 108	8 460	1 864	372	128	432	112	40.7	34.1	88.5	91.1
Self-employed	159 146	78 037	81 109	44 444	2 996	3 766	2 732	2 986	38.4	37.6	93.2	96.1
Sales representatives, finance and business services	43 508	19 301	24 207	16 656	2 404	3 834	1 905	1 068	38.9	37.6	79.2	95.5
Sales representatives, commodities, except retail	36 757	15 140	21 597	17 326	2 431	3 427	1 072	1 048	42.5	38.0	77.4	84.8
Sales workers, retail and personal services	6 751	2 410	3 808	2 320	173	207	171	134	33.3	32.3	85.7	87.4
Cashiers	304	178	154	121	24	5	—	8	43.4	32.0	83.1	100.0
Other sales occupations, retail and personal services	2 085 492	945 425	1 200 057	914 730	120 394	163 371	51 754	54 104	40.4	33.9	87.2	90.8
Sales related occupations	183 596	101 636	107 079	51 095	11 370	9 045	4 306	4 306	43.7	38.4	92.0	92.9
Administrative support occupations, including clerical	35 852	15 515	20 337	16 355	1 769	3 152	769	1 016	32.6	31.9	95.2	93.8
Supervisors, administrative support occupations	218 598	5 676	4 689	18 756	631	18 788	528	10 245	35.6	32.5	89.4	93.6
Computer equipment operators	168 862	2 888	165 974	2 465	246	8 246	185	7 514	40.0	32.9	90.9	93.9
Secretaries, stenographers, and typists	49 736	2 788	46 948	36 432	385	8 246	343	2 731	32.8	30.1	86.4	92.6
Stenographers and typists	15 831	1 632	1 419	1 117	239	1 979	150	941	38.2	30.7	86.4	94.0
Receptionists	103 841	40 646	64 195	34 738	3 537	7 783	2 670	3 930	36.0	32.0	92.6	86.4
Other information clerks	3 506	10 592	2 878	8 018	463	2 019	286	724	32.7	30.7	86.1	85.1
File clerks	114 181	32 058	82 123	66 323	3 041	12 863	2 047	4 412	34.6	30.2	90.3	94.6
Other records processing occupations, except financial	100 687	17 280	83 407	75 423	1 113	4 933	1 203	3 662	38.6	37.4	93.0	91.4
Bookkeepers, accounting, and auditing clerks	19 631	5 944	13 687	11 530	553	1 540	257	528	41.8	33.8	89.9	92.8
Payroll and timekeeping clerks	37 848	12 917	24 931	21 896	670	2 336	537	971	39.7	33.6	90.4	91.5
Other financial records processing occupations	143 408	16 816	126 592	131 617	2 919	23 367	1 355	6 544	27.9	33.6	92.4	87.1
Telephone operators	550 671	413 435	333 093	95 826	63 690	36 810	21 090	4 460	43.7	37.8	86.5	86.2
Mail and message distributing occupations	30 057	17 112	12 945	10 770	1 661	1 883	603	623	39.4	33.1	87.1	90.8
Production coordinators and expeditors	59 672	29 774	38 596	10 055	6 383	1 378	3 976	727	33.5	30.9	85.3	89.7
Traffic, shipping, and receiving clerks	39 083	47 711	9 309	7 595	3 823	1 292	2 042	551	39.0	33.0	87.1	85.5
Stock and inventory clerks	112 502	89 431	23 071	19 395	9 371	3 030	4 691	906	36.2	32.7	78.8	85.4
Other material recording, scheduling, and distributing clerks	32 871	15 779	17 092	14 178	1 472	2 190	770	964	39.8	33.6	90.7	93.7
Adjusters and investigators	28 884	4 572	24 312	18 313	650	4 477	276	1 647	34.8	31.5	91.2	92.0
Dialer and teletype	244 379	74 145	63 652	138 421	7 447	24 566	4 198	8 932	39.0	34.3	87.3	90.7
Other administrative support occupations	250 776	157 422	112 167	73 413	36 263	15 072	12 088	4 843	40.5	32.3	64.9	80.5
Service occupations	35 663	31 091	4 572	3 315	5 195	1 019	1 472	239	41.2	33.0	74.8	77.7
Private household occupations	32 464	28 037	4 427	3 188	4 949	1 001	1 397	233	41.4	33.0	73.3	77.1
Protective service occupations	3 199	3 054	2 755	1 277	246	18	75	6	40.2	32.3	88.3	95.9
Guards	215 113	126 331	88 782	70 098	31 068	14 053	10 616	4 604	40.3	32.3	62.5	80.6
Other protective service occupations	15 721	8 710	7 011	4 746	2 875	1 629	1 170	908	44.6	41.6	56.1	57.4
Food preparation and service occupation	4 196	2 650	2 342	1 251	206	258	151	52	26.5	31.9	82.8	82.2
Health service occupations	106 473	88 345	18 128	10 684	20 479	6 463	6 865	1 168	42.8	46.1	57.3	47.5
Cleaning and building service occupations, except household	88 723	26 626	62 097	53 417	7 508	5 703	2 430	2 476	34.4	30.7	79.9	92.9
Personal service occupations	6 552	6 018	4 515	4 15	1 054	83	610	24	35.1	26.9	56.1	65.9
Farming, forestry, and fishing occupations	219 828	1 147 552	92 276	42 918	83 540	7 242	52 050	2 851	38.3	33.2	80.1	86.3
Precision production, craft, and repair occupations	680 853	67 427	578 214	27 096	40 917	4 497	31 145	1 903	36.8	32.0	81.4	89.5
Mechanics and repairers	37 602	38 421	35 900	963	1 695	95	3 028	76	45.3	37.0	83.3	91.5
Supervisors, mechanics and repairers	47 551	47 033	47 033	47 033	1 075	95	3 028	76	37.0	31.6	65.2	77.7
Automobile mechanics, including body	25 767	23 462	307	264	2 354	33	926	15	37.5	32.1	77.4	83.4
Industrial machinery repairers	27 505	26 718	787	624	1 366	110	1 331	41	32.9	30.7	86.5	78.9
Electronic repairers, communications and industrial equipment	4 925	505 085	67	61	385	4 327	210	28	41.5	29.3	78.2	83.1
Heating, air conditioning, and refrigeration mechanics	535 521	30 436	451 457	24 797	36 084	4 358	24 418	1 756	36.2	32.1	75.9	87.1
Other mechanics and repairers	243 927	29 932	3 995	3 289	18 274	563	9 753	131	37.8	35.3	78.2	65.3
Construction trades	30 239	29 745	494	405	1 329	62	748	—	45.9	43.9	80.2	77.5
Supervisors, construction occupations	14 753	14 545	208	150	1 029	51	786	12	45.9	43.9	61.7	77.5
Carpenters	54 684	53 809	875	707	4 005	143	3 379	26	36.3	34.1	63.3	80.1
Electricians	5 933	5 745	188	145	3 642	38	552	9	37.9	31.8	59.8	48.1
Painters, construction and maintenance	31 804	31 156	648	617	3 642	28	552	9	37.9	31.8	59.8	48.1
Plumbers, pipefitters, and steamfitters	106 514	104 932	1 582	1 265	7 555	241	3 617	64	37.5	36.2	22.8	52.5
Other construction trades	27 505	26 718	787	624	1 366	110	1 331	41	32.9	30.7	86.5	78.9
Persons of Spanish origin may be of any race.												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Transportation, communications, and other public utilities											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.												
Extraction occupations	1 225	1 170	1 023	40	103	15	69	8	39.9	32.9	72.7	85.5
Precision production occupations	293 823	278 823	253 076	12 492	18 246	1 967	11 063	809	42.0	35.8	79.0	84.9
Machine production occupations	151 234	142 552	131 191	7 249	8 221	1 176	5 288	513	44.7	38.2	79.7	89.6
Production occupations	33 353	32 326	29 213	384	2 521	75	1 715	38	38.6	32.4	75.3	77.6
Production occupations, excluding occupations	28 014	22 830	24 489	34	25	21	1 444	—	36.6	30.4	75.3	78.3
Tool and die makers	4 164	4 164	20 053	149	1 933	35	1 209	—	40.8	30.1	75.0	77.7
Mechanics	5 412	5 409	3 822	53	1 175	267	2 05	—	33.3	33.7	72.5	71.6
Sheet metal workers	5 412	5 409	4 849	163	408	40	205	7	45.8	36.2	53.0	50.5
Other precision metal workers	3 571	3 571	2 192	154	167	37	32	18	44.8	40.4	61.5	65.1
Precision textile, apparel, and furnishings machine workers	3 571	3 571	2 192	154	167	37	32	18	44.8	40.4	61.5	65.1
Precision food production occupations	16 715	15 617	13 985	812	1 091	218	821	48	45.2	32.9	71.1	87.8
Precision inspectors, testers, and related workers	85 449	82 339	74 013	2 662	5 869	388	2 974	113	37.5	31.7	80.6	83.2
Plant and system operators	2 523	2 110	1 909	280	132	56	86	73	38.3	34.0	77.7	66.8
Other precision production occupations												
Operators, fabricators, and laborers	2 152 483	2 009 580	1 833 628	112 375	300 849	24 746	118 928	7 555	37.5	35.1	61.8	69.7
Machine operators, assemblers, and inspectors	164 310	145 892	121 460	13 113	18 265	4 076	9 470	1 585	36.0	34.0	69.7	70.8
Machine operators and leaders, except precision	78 277	68 267	54 544	6 791	10 470	2 480	5 090	752	35.0	33.0	68.6	74.0
Manufacturing and plastic working machine operators	3 958	3 224	3 105	61	390	65	267	22	36.8	35.2	64.7	63.9
Manufacturing machine operators, n.e.c.	305	224	140	21	65	11	19	9	36.5	35.2	66.1	62.1
Metal and plastic processing and woodworking machine operators	1 404	1 263	946	106	251	23	82	15	33.6	35.4	62.1	65.2
Printing machine operators	2 793	1 915	1 493	687	318	118	98	66	33.2	31.2	85.7	82.1
Textile machine operators	357	283	220	31	45	43	36	6	37.5	46.1	60.8	70.3
Textile sewing machine operators	290	186	128	56	58	34	6	17	31.2	37.7	32.8	57.7
Laundry and dry cleaning machine operators	244	121	103	55	8	68	23	—	32.7	39.3	57.0	66.7
Packaging and filling machine operators	572	377	195	299	131	40	46	20	35.8	32.8	68.2	53.8
Food, kind, and oven operators, except food	8 469	8 361	7 291	79	884	23	592	101	36.9	30.2	78.6	94.4
Other specified machine operators	7 166	6 617	5 393	4 526	849	241	3 650	502	34.7	33.3	64.5	76.9
Miscellaneous and not specified machine operators	52 069	45 275	35 426	4 526	7 542	1 803	3 650	502	34.8	33.3	67.3	74.2
Fabricators, assemblers, and hand working occupations	52 490	47 914	40 762	3 274	5 031	974	3 140	441	34.1	34.4	68.5	64.0
Welders and cutters	39 645	39 182	34 159	463	3 381	116	2 360	31	34.0	32.5	68.7	68.0
Solders and brazers	260	82	60	119	11	53	14	25	37.8	35.1	78.0	60.1
Assemblers	10 761	7 050	5 270	2 678	1 344	758	662	375	33.8	33.4	68.0	63.1
Production occupations, testers, samplers, and weighers	8 824	1 600	1 273	157	47	47	104	10	38.1	34.4	64.6	73.2
Leaders and sorters, except agricultural	33 593	29 689	26 154	3 048	2 764	622	1 240	392	42.6	37.1	74.4	70.7
Other production inspectors, testers, samplers, and weighers	2 626	1 299	1 001	1 044	229	131	119	245	26.7	41.3	73.8	50.6
Transportation and material moving occupations	30 967	28 390	25 153	2 004	2 535	491	1 121	147	43.2	34.7	74.4	81.3
Transportation occupations	1 534 881	1 438 943	1 205 636	79 493	187 385	13 537	72 670	3 734	38.8	36.0	62.0	71.4
Motor vehicle operators	1 452 041	1 358 227	1 141 800	77 865	174 261	13 167	66 698	3 608	38.9	36.1	62.1	71.5
Truck drivers	902 463	879 608	758 805	20 295	156 745	12 700	59 749	3 477	38.8	36.0	59.4	71.1
Other vehicle operators	4 871	4 609	4 006	239	96 019	1 949	42 338	948	38.4	34.3	70.2	72.3
Other vehicle operators, excluding truck drivers	306 643	239 536	166 691	54 331	512	8	195	5	36.5	31.3	72.9	82.1
Rail and water transportation occupations	238 064	234 474	212 298	3 000	40 214	10 743	17 216	2 524	40.6	37.1	67.1	71.4
Material moving equipment operators	82 840	80 716	63 836	1 646	17 516	467	6 889	131	31.9	31.8	75.1	81.2
Supervisors, material moving equipment operators	10 536	10 383	8 912	153	13 124	370	6 032	126	37.6	31.9	59.4	64.8
Crane, hoist and wind operators	8 313	8 204	6 861	86	1 127	9	656	—	42.9	39.2	69.2	81.0
Excavating, grading, and dozer machine operators	9 040	8 775	7 735	166	1 086	16	476	—	40.3	31.6	58.6	70.6
Other material moving equipment operators	54 951	53 354	40 328	1 175	22 761	22	7 454	12	36.4	34.8	56.3	72.5
Handlers, equipment cleaners, helpers, and laborers	453 292	424 745	306 532	19 769	95 199	7 153	36 788	2 236	32.9	32.8	58.6	63.3
Supervisors: handlers, equipment cleaners, and laborers, n.e.c.	2 873	2 689	2 164	148	447	36	85	—	41.9	41.4	84.5	90.8
Helpers, craft and production	14 136	13 381	10 411	521	2 318	181	1 182	56	29.1	30.1	64.7	84.5
Construction laborers	16 622	16 283	12 938	6 103	2 525	103	1 389	15	33.3	29.1	65.4	66.1
Freight, stock, and material handlers	243 114	233 903	167 645	6 103	55 510	2 709	17 762	484	33.3	31.1	58.7	71.7
Garage and service station occupations, and equipment cleaners	17 908	15 914	11 413	1 306	3 558	552	1 344	143	30.6	36.5	58.1	58.0
Hand packers and packagers	13 290	7 846	5 413	1 016	1 593	101	314	683	31.4	33.9	54.4	53.9
Laborers, except construction	145 349	134 729	96 548	7 483	29 248	2 556	13 692	855	32.7	33.7	56.8	59.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States																			
Railroads																			
	Total				Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Both sexes		Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	577 519	532 755	44 764	469 744	37 705	47 574	5 732	25 547	1 396	39.5	36.5	75.2	89.2	6.2	8.0	-	-	-	-
Managerial and professional specialty occupations	57 625	53 620	4 005	49 771	3 514	2 863	352	1 611	54	45.3	35.9	84.1	95.1	21.4	28.0	-	-	-	-
Executive, administrative, and managerial occupations	47 330	44 170	3 160	40 857	2 758	2 485	299	1 471	36	46.0	38.5	82.3	94.5	16.7	22.4	-	-	-	-
Officials and administrators, public administration	6	6	-	6	-	6	17	15	-	46.3	46.4	96.5	70.7	48.3	10.3	-	-	-	-
Financial managers	1 595	1 544	51	1 535	51	-	-	4	-	49.2	30.2	97.3	100.0	29.9	72.5	-	-	-	-
Managers, marketing, advertising, and public relations	6	6	-	6	-	-	-	-	-	60.0	-	100.0	-	-	-	-	-	-	-
Administrators, education and related fields	937	840	97	799	75	30	8	19	6	43.8	36.3	93.3	100.0	44.5	50.5	-	-	-	-
Managers, medicine and health	34 026	32 473	1 553	30 042	1 389	1 823	125	1 117	28	46.5	40.7	80.1	92.2	13.3	16.7	-	-	-	-
Managers and administrators, n.e.c.	34 026	32 473	1 553	30 042	1 389	1 823	125	1 117	28	46.5	40.7	80.1	92.2	13.3	16.7	-	-	-	-
Self-employed	9 959	8 558	1 401	7 732	1 202	626	149	316	2	42.8	36.1	85.3	97.5	22.0	25.6	-	-	-	-
Management related occupations	3 647	2 749	898	2 553	755	137	124	41	2	42.8	38.0	97.0	97.3	38.1	25.3	-	-	-	-
Accountants and auditors	2 006	1 773	233	1 633	201	114	14	52	-	45.2	34.4	87.8	97.4	20.2	17.7	-	-	-	-
Personnel, training, and labor relations specialists	732	608	124	574	120	34	4	-	-	47.0	42.0	94.4	100.0	20.2	17.7	-	-	-	-
Buyers and purchasing agents	2 513	2 489	24	2 086	24	295	24	217	-	39.8	33.3	65.0	79.2	2.9	-	-	-	-	-
Inspectors and compliance officers	1 061	939	122	886	102	46	7	6	-	42.1	31.6	94.7	100.0	30.1	43.4	-	-	-	-
Other management related occupations	10 295	9 450	845	8 914	756	378	53	140	18	41.5	31.8	93.0	97.3	43.1	49.0	-	-	-	-
Professional specialty occupations	6 047	5 931	116	5 624	111	203	5	65	-	43.0	31.0	90.6	100.0	35.6	50.0	-	-	-	-
Engineers, architects, and surveyors	53	47	6	47	-	-	-	-	-	44.7	30.0	100.0	100.0	42.6	-	-	-	-	-
Architects	5 865	5 766	99	5 469	94	203	5	50	-	43.2	30.5	90.5	100.0	35.8	47.5	-	-	-	-
Engineers	3 513	3 467	46	3 289	46	116	-	26	-	44.9	31.8	87.5	100.0	29.7	73.9	-	-	-	-
Civil engineers	616	611	5	585	5	20	-	14	-	40.1	25	93.1	100.0	35.7	100.0	-	-	-	-
Electrical and electronic engineers	615	600	15	591	15	21	-	5	-	41.0	33.3	96.8	100.0	47.2	-	-	-	-	-
Industrial engineers	343	323	20	302	15	21	-	5	-	44.1	33.3	89.5	100.0	60.7	-	-	-	-	-
Mechanical engineers	778	765	13	702	13	46	-	15	-	41.3	25	97.3	100.0	43.7	61.5	-	-	-	-
Other engineers	129	118	11	108	11	-	-	15	-	34.0	35.8	94.9	100.0	23.7	100.0	-	-	-	-
Surveyors and mapping scientists	965	739	226	684	179	50	27	14	-	36.8	31.1	97.8	100.0	38.6	41.6	-	-	-	-
Computer systems analysts and scientists	458	381	77	347	74	15	3	6	-	37.9	31.6	97.9	93.5	53.8	50.6	-	-	-	-
Operations and systems researchers and analysts	222	166	76	131	76	15	7	-	7	47.3	39.2	100.0	100.0	31.5	-	-	-	-	-
Mathematical scientists	176	162	14	162	7	-	-	-	-	48.8	35.0	98.1	50.0	70.4	50.0	-	-	-	-
Natural scientists	138	131	7	131	7	-	-	-	-	49.6	25	100.0	100.0	71.8	100.0	-	-	-	-
Chemists, except biochemists	38	31	7	31	-	-	-	-	-	45.6	50.0	90.3	-	64.5	-	-	-	-	-
Other natural scientists	33	33	3	27	-	6	-	-	-	38.9	54.5	100.0	100.0	100.0	24.2	-	-	-	-
Health diagnosing occupations	39	6	6	33	33	-	-	-	-	40.0	54.5	100.0	100.0	100.0	24.2	-	-	-	-
Health assessment and treating occupations	33	33	3	33	33	-	-	-	-	40.0	54.5	100.0	100.0	100.0	24.2	-	-	-	-
Registered nurses	6	6	-	6	-	-	-	-	-	40.0	54.5	100.0	100.0	100.0	24.2	-	-	-	-
Other health assessment and treating occupations	139	125	14	120	3	5	11	-	-	40.2	31.4	91.2	100.0	21.6	78.6	-	-	-	-
Teachers, except postsecondary	345	272	73	245	73	27	-	7	-	35.0	29.6	100.0	100.0	71.0	82.2	-	-	-	-
Social scientists and urban planners	33	16	17	16	17	-	-	-	-	53.0	40.0	100.0	100.0	75.0	47.1	-	-	-	-
Social and recreation workers	730	658	72	651	72	7	-	-	-	44.7	31.4	99.2	100.0	97.3	86.1	-	-	-	-
Lawyers and judges	1 020	979	91	856	86	43	-	48	-	36.5	30.4	94.4	100.0	42.9	65.9	-	-	-	-
Writers, artists, entertainers, and athletes	88	52	36	45	25	7	-	-	11	57.1	35.8	75.0	69.4	13.5	19.4	-	-	-	-
Other professional specialty occupations	106 780	73 231	33 549	67 483	28 991	4 514	3 628	2 187	984	43.6	37.4	86.4	92.3	10.3	5.9	-	-	-	-
Technical, sales, and administrative support occupations	4 466	3 926	540	3 748	1 447	116	41	90	-	34.9	31.7	94.4	95.7	20.5	35.4	-	-	-	-
Technicians and related support occupations	34	26	8	26	8	-	-	-	-	33.9	31.7	80.8	100.0	34.6	-	-	-	-	-
Health technologists and technicians	4	2	2	2	2	-	-	-	-	60.0	50.0	100.0	100.0	-	-	-	-	-	-
Licensed practical nurses	30	24	6	24	6	-	-	-	-	32.8	30.0	79.2	100.0	37.5	-	-	-	-	-
Other health technologists and technicians	2 309	2 192	117	2 094	78	83	20	71	-	34.7	35.2	94.9	97.4	17.0	12.0	-	-	-	-
Engineering and science technicians	746	721	25	693	12	28	-	21	-	33.3	30.7	97.8	88.0	8.7	12.0	-	-	-	-
Electrical and electronic technicians	83	75	8	75	8	-	-	-	-	31.7	48.3	100.0	100.0	81.3	-	-	-	-	-
Industrial and mechanical engineering technicians	1 066	1 001	65	957	39	29	20	11	-	36.7	37.6	93.3	100.0	14.8	10.8	-	-	-	-
Drafting and surveying technicians	414	395	19	369	19	26	-	39	-	35.5	31.3	92.9	100.0	25.3	21.1	-	-	-	-
Other engineering and science technicians	2 123	1 708	415	1 628	361	33	21	19	-	35.5	31.0	94.0	95.2	24.7	42.7	-	-	-	-
Technicians, except health, engineering, and science	26	26	-	26	-	-	-	-	-	58.5	-	100.0	100.0	-	-	-	-	-	-
Airplane pilots and navigators	139	116	23	116	23	-	-	-	-	47.9	36.5	93.1	43.5	12.1	-	-	-	-	-
Air traffic controllers and broadcast equipment operators	1 191	891	300	854	252	4	15	7	-	32.6	30.1	98.0	100.0	36.5	46.0	-	-	-	-
Computer programmers	767	675	92	632	86	29	6	12	-	41.5	33.9	88.6	92.4	12.3	42.4	-	-	-	-
Other technicians, except health, engineering, and science																-	-	-	-

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States		Race										Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed											
		Total				White		Black																							
		Both sexes	Male	Female	Total	Male	Female	Male	Female																						
Employed persons 16 years and over—Con.																															
Technical, sales, and administrative support occupations—Con.																															
Sales occupations																															
Supervisors and proprietors, sales occupations																															
Sales representatives, finance and business services																															
Sales representatives, commodities, except retail																															
Sales workers, retail and personal services																															
Cashiers																															
Other sales occupations, retail and personal services																															
Sales related occupations																															
Administrative support occupations, including clerical																															
Supervisors, administrative support occupations																															
Computer equipment operators																															
Secretaries, stenographers, and typists																															
Stenographers and typists																															
Receptionists																															
Other information clerks																															
File clerks																															
Other records processing occupations, except financial																															
Bookkeepers, accounting, and auditing clerks																															
Payroll and timekeeping clerks																															
Other financial records processing occupations																															
Telephone operators																															
Mail and message distributing occupations																															
Production coordinators and expeditors																															
Traffic, shipping, and receiving clerks																															
Stock and inventory clerks																															
Other material recording, scheduling, and distributing clerks																															
Adjusters and investigators																															
Data-entry keyers																															
Other administrative support occupations																															
Service occupations																															
Private household occupations																															
Protective service occupations																															
Guards																															
Other protective service occupations																															
Service occupations, except protective and household																															
Food preparation and service occupation																															
Health service occupations																															
Cleaning and building service occupations, except household																															
Personal service occupations																															
Farming, forestry, and fishing occupations																															
Precision production, craft, and repair occupations																															
Mechanics and repairers																															
Supervisors, mechanics and repairers																															
Automobile mechanics, including body																															
Industrial machinery repairers																															
Electronic repairers, communications and industrial equipment																															
Heating, air conditioning, and refrigeration mechanics																															
Other mechanics and repairers																															
Construction trades																															
Supervisors, construction occupations																															
Carpenters																															
Electricians																															
Painters, construction and maintenance																															
Plumbers, pipefitters, and steamfitters																															
Other construction trades																															

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States												Percent self-employed	
	Race						Railroads							
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Extraction occupations														
Precision production occupations														
Supervisors, production occupations														
Precision metalworking occupations														
Tool and die makers														
Machinists														
Sheet metal workers														
Other precision metal workers														
Precision textile, apparel, and furnishings machine workers														
Precision food production occupations														
Precision inspectors, testers, and related workers														
Plant and system operators														
Other precision production occupations														
Operators, fabricators, and laborers														
Machine operators, assemblers, and inspectors														
Machine operators and tenders, except precision														
Metalworking and plastic working machine operators														
Fabricating machine operators, n.e.c.														
Metal and plastic processing and woodworking machine operators														
Printing machine operators														
Textile machine operators														
Textile sewing machine operators														
Laundry and dry cleaning machine operators														
Packaging and filling machine operators														
Furnace, kiln, and oven operators, except food														
Other specified machine operators														
Miscellaneous and not specified machine operators														
Fabricators, assemblers, and hand working occupations														
Welders and cutters														
Solders and brazers														
Assemblers														
Hand working occupations														
Production inspectors, testers, samplers, and weighers														
Graders and sorters, except agricultural														
Other production inspectors, testers, samplers, and weighers														
Transportation and material moving occupations														
Transportation occupations														
Motor vehicle operators														
Truck drivers														
Driver-sales workers														
Other motor vehicle operators														
Rail and water transportation occupations														
Material moving equipment operators														
Supervisors, material moving equipment operators														
Crane, hoist, and winch operators														
Excavating, grading, and dozer machine operators														
Other material moving equipment operators														
Handlers, equipment cleaners, helpers, and laborers														
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.														
Helpers, craft and production														
Construction laborers														
Freight, stock, and material handlers														
Garage and service station occupations, and equipment cleaners														
Hand packers and packagers														
Laborers, except construction														

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Trucking service and warehousing

United States	Total				Race		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Both sexes		Female		White		Black		Male		Female		Male		Female		Male		Female	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over	1 546 486	1 345 853	200 633	1 179 944	181 473	126 222	13 211	66 187	8 761	37.3	33.8	63.3	83.2	5.6	5.1	9.9	3.5			
Managerial and professional specialty occupations	120 852	104 114	16 738	99 531	15 798	2 723	557	2 620	404	41.2	38.2	85.3	89.7	25.0	13.4	10.5	5.9			
Executive, administrative, and managerial occupations	116 285	100 405	15 880	96 126	15 044	2 529	490	2 543	394	41.4	38.6	85.0	89.6	24.2	11.9	10.8	6.3			
Critical and administrative, public administration	55	45	—	55	—	—	—	—	—	—	—	—	—	—	—	—	—			
Managers, marketing, advertising, and public relations	2 241	1 773	468	1 710	428	8	28	48	6	39.2	38.1	96.3	98.5	58.0	8.1	—	—			
Managers, health services	4 629	4 415	214	4 376	214	22	22	80	13	42.4	40.0	76.8	50.0	34.1	30.4	1.3	5.6			
Managers, education and related fields	68	56	12	56	12	—	—	—	—	—	—	—	—	21.4	—	10.7	50.0			
Managers, medicine and health	2 991	2 505	486	2 358	430	84	51	108	20	40.4	39.9	86.0	94.9	26.9	6.4	5.1	2.7			
Other specified managers	93 211	82 520	10 691	79 008	10 262	2 142	238	1 983	266	41.7	40.7	83.4	87.3	21.3	8.6	12.6	8.3			
Managers and administrators, n.e.c.	81 471	71 976	9 495	69 126	9 088	1 705	230	1 543	260	41.4	40.0	85.6	88.9	23.1	8.4	98.7	74.4			
Self-employed	11 740	10 544	1 196	9 862	1 174	437	8	343	6	43.6	46.3	68.9	74.6	8.7	9.9	—	—			
Management related occupations	13 090	9 081	4 009	8 563	3 698	273	173	315	89	37.7	33.4	91.9	94.9	38.9	20.8	2.8	1.8			
Accountants and auditors	7 696	4 653	3 043	4 417	2 808	66	130	175	82	36.8	32.8	92.7	98.7	53.5	22.3	1.0	0.9			
Personnel, training, and labor relations specialists	2 711	2 312	399	2 121	372	153	7	96	26	38.0	35.7	92.9	91.5	35.7	22.1	3.2	2.1			
Buyers and purchasing agents	1 148	937	211	897	192	26	12	76	7	31.1	23.9	55.7	50.0	19.3	9.0	9.5	6.6			
Inspectors and compliance officers	243	219	24	197	24	16	—	8	—	39.4	35.3	96.1	93.1	8.7	24.4	4.6	9.3			
Other management related occupations	1 292	960	332	931	302	12	24	10	—	—	—	—	—	36.6	—	—	—			
Professional specialty occupations	4 567	3 709	858	3 405	754	194	67	77	10	36.5	32.1	92.8	92.0	46.7	41.5	1.8	—			
Engineers, architects, and surveyors	2 027	1 842	185	1 690	159	78	35	24	—	35.7	30.4	94.2	93.0	42.6	37.3	0.8	—			
Architects	28	28	—	28	—	—	—	—	—	—	—	—	—	75.9	—	—	—			
Engineers	1 981	1 778	183	1 553	146	78	35	17	—	36.0	30.4	94.0	92.9	42.1	37.7	0.8	—			
Electrical and electronic engineers	388	338	50	301	26	29	—	5	—	42.6	—	88.9	—	32.7	—	2.3	—			
Mechanical engineers	1 446	1 260	186	1 160	103	26	—	12	—	41.1	33.9	100.0	100.0	69.2	53.8	—	—			
Chemical engineers	850	721	129	673	103	24	26	—	—	32.3	30.7	95.3	89.9	46.3	33.3	—	—			
Mechanical engineers	246	233	13	225	13	8	—	—	—	37.7	30.0	94.8	100.0	37.7	46.2	—	—			
Other engineers	351	336	15	306	6	17	9	—	—	39.5	25	94.6	100.0	37.8	40.0	1.5	—			
Surveyors and mapping scientists	15	15	—	—	—	—	—	—	—	36.7	—	—	—	40.0	—	—	—			
Computer systems analysts and scientists	400	320	80	302	80	6	—	23	—	32.9	31.7	100.0	100.0	52.5	51.3	—	—			
Operations and systems researchers and analysts	278	244	34	210	30	7	—	—	—	38.6	31.8	97.2	97.2	47.8	46.0	—	—			
Mathematical scientists	106	100	6	97	23	6	13	—	—	56.4	31.7	87.5	83.3	58.3	27.8	—	—			
Natural scientists	54	54	—	—	—	—	—	8	—	36.9	40.0	93.0	100.0	71.0	100.0	7.0	—			
Chemists, except biochemists	52	46	6	46	—	7	6	8	—	33.2	40.0	100.0	100.0	85.2	100.0	—	—			
Other natural scientists	54	46	6	46	—	—	—	—	—	39.4	40.0	84.8	100.0	54.3	100.0	15.2	—			
Health diagnosing occupations	35	35	—	—	—	—	—	—	—	52.9	52.9	90.0	90.4	37.1	23.1	20.0	—			
Health assessment and treating occupations	102	50	52	25	47	25	5	—	—	27.6	25	61.5	90.4	—	—	—	—			
Registered nurses	65	13	52	5	47	8	5	—	—	25	25	100.0	—	—	—	—	—			
Other health assessment and treating occupations	37	37	—	20	—	17	—	—	—	28.1	—	100.0	—	—	—	—	—			
Teachers, except postsecondary	201	166	35	166	35	—	—	11	—	48.3	39.6	65.1	68.6	10.2	—	1.2	—			
Social scientists and urban planners	203	176	27	176	27	6	—	7	—	33.9	36.6	100.0	100.0	61.9	66.7	4.5	—			
Social and recreation workers	29	20	9	14	9	—	—	—	—	47.5	48.6	95.0	100.0	70.0	—	—	—			
Lawyers and judges	271	239	32	223	32	16	—	4	—	34.2	33.0	100.0	100.0	100.0	100.0	2.5	—			
Writers, artists, entertainers, and athletes	783	504	279	450	243	50	8	4	10	41.6	38.5	89.5	89.2	40.5	43.7	4.4	—			
Other professional specialty occupations	72	55	17	55	17	—	—	—	—	36.4	—	78.2	76.5	23.6	—	—	—			
Technical, sales, and administrative support occupations	252 113	112 571	139 542	99 742	128 517	8 936	7 359	6 280	5 547	35.1	33.5	82.3	87.7	14.0	4.5	2.1	1.8			
Technicians and related support occupations	2 755	2 011	744	1 807	659	82	72	92	40	32.8	30.8	92.1	96.1	25.3	26.5	0.8	—			
Health technicians	75	50	23	50	23	—	—	—	—	25	36.0	100.0	100.0	10.0	30.4	—	—			
Licensed practical nurses	5	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other health technicians and technicians	68	45	23	45	23	—	—	—	—	25	36.0	100.0	100.0	11.1	30.4	—	—			
Engineering and science technicians	764	629	135	594	109	24	26	27	16	34.4	30.1	87.9	98.5	15.9	32.6	1.4	—			
Electrical and electronic technicians	180	161	19	161	5	—	—	6	—	33.5	27.7	96.9	100.0	3.7	31.6	—	—			
Industrial and mechanical engineering technicians	84	66	18	66	18	—	—	—	—	33.0	25	93.2	100.0	30.3	—	—	—			
Drafting and surveying technicians	194	191	3	179	3	12	—	10	—	30.0	30.0	93.2	100.0	13.1	—	—	—			
Other engineering and science technicians	306	211	95	188	83	12	12	11	16	40.6	32.2	86.3	97.9	23.2	40.0	4.3	—			
Technicians, except health, engineering, and science	1 918	1 332	586	1 163	527	58	46	65	24	32.6	31.1	93.8	95.4	30.3	24.9	0.5	—			
Airplane pilots and navigators	115	115	—	—	—	2	—	—	—	43.4	32.6	94.8	100.0	32.2	—	2.6	—			
Air traffic controllers and broadcast equipment operators	171	146	25	146	25	—	—	9	—	36.4	25	87.0	100.0	13.0	—	—	—			
Computer programmers	1 221	823	398	701	361	27	29	36	13	30.8	32.4	100.0	98.7	36.6	28.6	0.5	—			
Other technicians, except health, engineering, and science	411	248	163	206	141	29	17	20	11	33.9	29.5	77.0	86.5	18.5	19.6	—	—			

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Trucking service and warehousing																	
	Total		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Both sexes	Male	Female	White	Black	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																	
Technical, sales, and administrative support occupations—Con.																	
Sales occupations	28 421	23 369	5 052	4 650	253	4 511	253	633	171	40.9	36.3	87.6	86.7	23.9	10.1	4.1	3.1
Supervisors	2 171	1 982	189	1 911	14	60	14	59	—	40.1	33.3	78.9	75.7	17.3	7.4	17.3	13.2
Supervisors and proprietors, sales occupations	1 801	1 637	164	1 573	14	53	14	36	—	39.7	30.7	82.8	87.2	19.1	8.5	—	—
Self-employed	1 370	1 345	25	338	7	289	55	23	87	42.5	46.3	60.0	87.2	8.7	—	99.4	100.0
Sales representatives, finance and business services	21 341	19 037	2 304	2 193	111	289	55	495	—	55.2	33.6	100.0	89.4	26.5	18.6	2.7	1.7
Sales representatives, commodities, except retail	65	65	—	65	—	—	—	—	—	55.2	33.6	100.0	89.4	26.5	18.6	2.7	1.7
Sales workers, retail and personal services	4 834	2 275	2 559	2 282	184	102	184	79	84	36.5	39.8	76.4	85.1	10.8	2.6	4.3	3.6
Cashiers	2 873	2 718	1 155	1 166	77	146	77	38	84	41.8	40.4	73.8	86.5	9.6	2.0	0.3	0.5
Other sales occupations, retail and personal services	1 961	1 557	404	366	38	25	38	41	—	34.0	35.8	77.6	77.5	7.6	5.4	6.2	19.8
Sales related occupations	10	10	—	10	—	—	—	—	—	56.7	—	40.0	—	20.0	—	—	—
Administrative support occupations, including clerical	220 937	133 746	87 191	123 208	7 034	8 403	7 034	5 555	5 336	33.9	33.4	80.6	87.7	11.1	4.2	1.6	1.7
Supervisors, administrative support occupations	9 972	6 225	3 747	5 682	252	334	252	369	203	36.6	36.6	87.8	91.5	20.1	7.3	1.6	0.5
Computer equipment operators	4 036	2 406	1 630	3 311	83	154	70	46	—	30.9	30.1	95.8	90.8	15.5	4.4	0.3	0.6
Secretaries, stenographers, and typists	39 132	38 350	782	36 478	68	1 121	68	84	351	34.4	32.7	83.1	89.7	11.8	3.7	0.9	1.4
Secretaries	33 543	32 058	1 485	31 727	30	761	30	100	100	36.5	32.8	79.6	89.7	11.5	3.8	1.4	1.6
Stenographers and typists	5 589	297	5 292	4 751	38	360	38	51	251	30.4	32.4	88.9	89.2	12.1	3.4	—	0.6
Receptionists	2 181	136	2 045	1 119	2	148	2	28	111	28.2	29.2	66.9	85.2	8.8	2.1	—	0.3
Other information clerks	2 038	1 517	443	1 313	60	148	60	28	126	45.5	32.1	71.2	78.8	15.2	6.1	6.1	5.1
File clerks	2 253	330	1 923	1 691	32	170	32	33	91	25.2	25.6	73.0	76.7	8.2	3.2	1.8	—
Other records processing occupations, except financial	4 002	1 645	2 357	2 067	277	183	277	230	112	33.0	32.1	69.8	85.2	9.1	6.2	0.8	—
Bookkeepers, accounting, and auditing clerks	26 608	2 931	23 677	22 518	69	596	69	188	636	39.8	37.9	92.2	89.1	18.1	4.1	2.7	4.3
Payroll and timekeeping clerks	3 930	3 279	651	3 065	13	136	13	11	68	38.5	33.1	92.0	89.5	18.0	4.1	—	0.3
Other financial records processing occupations	14 221	5 217	9 004	8 261	136	554	136	190	302	31.5	31.6	65.9	79.2	14.3	5.3	0.1	0.4
Telephone operators	1 476	85	1 391	674	85	1 172	85	20	180	31.1	30.4	80.0	87.0	10.1	4.4	8.2	0.9
Mail and message distributing occupations	10 973	8 083	2 890	6 144	1	586	1	46	145	33.7	34.5	78.5	82.5	9.3	8.3	1.3	—
Production coordinators and expeditors	2 411	1 536	875	1 361	119	428	119	68	213	25.6	28.6	81.5	82.3	7.7	5.2	0.5	0.6
Traffic, shipping, and receiving clerks	17 920	14 603	3 317	2 693	2 294	462	2 294	143	213	30.5	31.4	70.2	73.0	3.4	2.1	0.5	0.1
Stock and inventory clerks	8 840	6 416	2 424	1 894	976	328	976	632	197	38.7	33.5	74.7	79.0	9.8	3.1	2.0	2.9
Other material recording, scheduling, and distributing clerks	30 676	25 525	5 151	4 689	342	1 590	342	972	222	37.6	33.4	89.9	91.8	20.2	7.5	1.3	0.7
Advisers and investigators	5 590	2 317	3 273	3 021	132	132	132	25	244	31.5	30.9	90.0	92.6	12.9	2.0	—	0.1
Data-entry keyers	4 339	389	3 950	3 331	27	377	27	25	244	31.5	30.9	90.0	92.6	12.9	2.0	—	0.1
Other administrative support occupations	30 339	8 369	21 970	20 143	603	1 179	603	637	992	34.1	33.8	85.8	85.8	13.4	3.7	1.0	0.9
Service occupations	16 771	14 136	2 635	1 794	726	2 308	726	1 092	154	39.1	37.8	53.3	49.5	4.3	2.3	1.3	1.9
Private household occupations	4 489	4 166	323	3 698	—	325	—	223	20	44.4	40.8	63.6	57.0	8.1	—	0.3	—
Protective service occupations	4 085	3 768	317	3 327	20	304	20	213	20	45.8	40.8	61.0	56.2	8.5	—	0.2	—
Guards	404	398	6	371	21	21	—	10	—	35.9	40.0	87.7	100.0	4.0	—	1.8	—
Other protective service occupations	12 282	9 970	2 312	1 511	706	1 983	706	869	134	36.7	37.1	48.9	48.5	2.7	2.6	1.6	2.1
Service occupations, except protective and household	776	373	403	1 190	150	150	150	45	39	27.7	30.8	62.7	54.8	3.8	0.5	8.3	2.2
Food preparation and service occupation	71	65	6	59	—	—	—	17	—	31.5	40.0	100.0	66.7	26.2	33.3	—	—
Health service occupations	71	65	6	59	—	—	—	17	—	31.5	40.0	100.0	66.7	26.2	33.3	—	—
Cleaning and building service occupations, except household	10 856	9 267	1 589	1 073	454	1 799	454	794	87	37.3	37.3	47.7	44.7	2.3	1.8	1.4	2.1
Personal service occupations	579	265	314	231	62	34	62	13	8	37.1	33.1	61.1	59.2	10.2	8.9	0.8	1.9
Farming, forestry, and fishing occupations	576	528	48	380	25	129	23	34	—	32.9	25	39.2	70.8	2.7	—	18.2	—
Precision production, craft, and repair occupations	123 260	119 343	3 917	108 038	3 428	7 820	336	5 321	243	36.3	35.5	65.9	74.2	4.9	5.5	2.6	3.9
Mechanics and repairers	76 189	75 671	518	68 900	452	4 624	50	3 080	34	35.5	31.5	60.6	73.0	1.6	1.0	2.2	2.5
Supervisors, mechanics and repairers	2 746	2 731	15	2 628	92	70	—	79	—	43.4	25	75.1	60.0	7.4	—	2.0	—
Automobile mechanics, including body	18 886	18 788	98	16 975	6	1 206	6	884	6	35.2	32.3	60.1	58.2	1.7	—	2.6	13.3
Industrial machinery repairers	1 563	1 558	5	1 403	—	99	—	99	—	37.0	40.0	65.9	100.0	2.7	—	0.6	—
Electronic repairers, communications and industrial equipment	145	129	16	123	10	6	6	5	—	38.3	39.0	79.8	68.8	3.9	—	—	—
Heating, air conditioning, and refrigeration mechanics	821	814	7	768	7	33	—	22	—	34.8	25	72.1	28.6	1.7	—	6.8	—
Other mechanics and repairers	52 028	51 651	377	47 003	38	3 210	38	1 991	28	35.0	31.5	59.6	78.0	1.2	1.3	2.0	—
Construction trades	3 209	3 124	85	2 768	79	209	6	305	11	36.3	37.7	63.5	27.1	4.5	12.9	4.5	5.9
Supervisors, construction occupations	395	388	7	375	7	31	—	17	—	45.6	40.0	67.5	—	13.7	—	10.8	—
Carpenters	808	801	7	735	7	31	—	108	5	35.5	48.0	56.9	—	5.9	—	10.0	—
Electricians	641	635	6	558	6	47	—	51	—	37.7	30.0	74.0	—	1.7	—	0.9	—
Painters, construction and maintenance	612	581	31	499	31	36	—	95	6	30.2	32.0	96.0	54.8	2.9	35.5	1.0	16.1
Plumbers, pipefitters, and steamfitters	251	251	—	216	—	20	—	34	—	37.7	38.9	81.3	—	3.6	—	—	—
Other construction trades	502	468	34	385	28	75	6	—	—	35.5	—	54.5	17.6	0.6	—	1.3	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Trucking service and warehousing													
Data are estimates based on a sample; see Introduction. For meaning of symbols, see Appendix A.)													
Percent completed 4 or more years of college													
Percent high school graduates													
Median age													
Spanish origin¹													
Race													
Black													
White													
Total													
Both sexes													
Male													
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Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other transportation														Percent self-employed		
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college				
	Total		White		Black												
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over	2 149 956	1 539 712	610 244	1 226 359	491 633	240 949	91 876	93 366	29 471	41.3	34.8	80.1	87.2	12.5	12.3	2.5	1.3
Managerial and professional specialty occupations	222 396	165 737	56 659	149 538	50 788	8 695	3 405	7 422	2 441	43.7	40.2	92.1	91.4	34.1	20.8	3.4	3.0
Executive, administrative, and managerial occupations	179 527	129 539	49 988	116 611	45 101	6 971	2 721	6 159	2 203	44.5	41.2	91.8	91.0	32.0	18.8	3.7	3.1
Officials and administrators, public administration	1 341	998	343	658	318	126	61	157	58	49.1	50.5	93.5	84.5	22.4	16.9	—	—
Financial managers	3 957	3 095	862	2 765	765	123	57	211	58	41.2	36.5	92.8	95.1	53.3	23.9	—	—
Managers, marketing, advertising, and public relations	7 808	6 147	1 641	5 705	1 566	87	22	330	157	41.7	34.7	96.8	94.6	43.2	35.6	1.4	2.7
Administrators, education and related fields	219	133	86	116	79	17	6	6	—	47.1	35.8	100.0	91.9	53.4	15.1	—	—
Managers, medicine and health	36 246	21 513	14 733	20 345	14 153	746	278	528	227	51.0	51.6	90.5	82.3	16.9	6.0	0.4	0.2
Other specified managers	98 009	72 890	21 119	3 944	1 039	3 944	1 039	4 036	1 082	43.6	38.4	90.8	93.6	32.2	22.0	5.8	6.6
Managers and administrators, n.e.c.	91 860	72 375	19 485	64 910	17 645	3 808	1 015	3 773	982	43.3	37.8	79.5	94.1	32.2	22.4	98.0	85.6
Salaried	6 149	4 515	1 634	4 146	1 559	1 336	24	263	100	47.1	46.0	79.5	87.1	21.4	16.8	—	—
Self-employed	31 947	20 763	11 184	17 762	9 016	1 928	1 303	1 031	665	41.4	34.2	94.8	96.7	42.4	26.9	1.0	0.5
Management related occupations	14 622	8 237	6 385	7 031	5 049	514	647	572	445	39.3	33.4	98.1	97.6	56.6	27.8	1.3	0.7
Accountants and auditors	8 465	5 695	2 770	4 699	2 230	864	422	237	149	43.1	35.9	91.7	95.9	27.0	26.6	0.5	—
Personnel, training, and labor relations specialists	2 853	2 173	680	1 339	572	139	84	105	27	41.8	37.8	93.2	93.2	31.0	19.0	0.3	0.7
Buyers and purchasing agents	3 051	2 161	790	2 374	245	301	45	66	22	42.5	32.6	92.2	91.4	39.5	33.8	0.2	—
Inspectors and compliance officers	2 956	1 897	1 059	1 713	920	110	105	51	22	42.2	33.2	95.1	97.2	44.5	25.3	3.1	0.6
Other management related occupations	42 869	36 198	6 671	32 947	5 687	1 724	684	1 263	238	40.2	33.7	92.9	95.0	41.9	36.0	2.4	2.7
Professional specialty occupations	19 372	18 930	442	17 306	372	746	52	614	—	43.0	33.9	90.3	91.6	44.8	31.0	1.8	2.3
Engineers, architects, and surveyors	18 717	18 372	12	16 775	12	38	—	585	—	43.6	45.0	100.0	94.1	45.0	50.0	—	—
Architects	1 925	1 898	27	1 619	19	66	8	75	—	41.4	36.9	98.4	100.0	42.8	30.9	1.7	2.4
Engineers	1 656	1 626	30	1 404	17	186	—	54	—	46.1	38.3	96.8	100.0	53.4	63.3	0.4	—
Civil engineers	1 913	1 713	200	1 483	169	160	31	40	—	47.6	34.2	94.7	100.0	47.8	18.0	0.4	—
Electrical and electronic engineers	1 001	954	47	837	41	57	6	23	—	47.1	36.7	88.5	100.0	41.8	31.9	—	—
Industrial engineers	12 222	12 102	120	11 432	114	226	13	393	—	44.8	30.0	97.4	99.2	39.8	37.2	2.2	8.3
Mechanical engineers	271	265	6	252	—	13	—	—	—	41.2	30.0	92.1	97.2	33.6	30.0	11.3	—
Other engineers	2 299	1 722	577	1 556	484	85	60	60	12	38.0	33.2	98.0	100.0	45.9	47.8	—	—
Surveyors and mapping scientists	1 565	1 244	321	1 061	240	144	70	48	14	39.8	35.0	95.1	91.0	42.1	34.3	—	—
Computer systems analysts and scientists	581	340	241	272	192	34	37	12	16	43.6	32.6	94.4	97.5	32.6	20.7	4.4	—
Operations and systems researchers and analysts	580	479	101	475	84	4	—	—	—	47.1	34.0	96.7	94.1	63.5	36.6	—	—
Mathematical scientists	166	119	47	119	40	—	—	—	—	47.3	32.3	95.0	100.0	62.2	37.4	—	—
Natural scientists	414	360	54	356	44	4	10	—	—	47.0	37.5	97.2	88.9	63.9	18.5	5.8	—
Chemists, except biochemists	158	135	23	135	23	—	—	—	—	50.6	44.2	100.0	100.0	71.1	47.8	8.1	1.5
Other natural scientists	5 209	3 797	1 412	3 633	1 245	114	135	158	19	26.8	34.2	97.2	97.5	13.6	24.1	0.9	1.9
Health diagnosing occupations	835	729	85	587	119	15	119	15	15	40.8	46.9	100.0	99.3	34.9	35.4	6.6	1.9
Health assessment and treating occupations	4 374	3 691	683	3 548	658	99	116	158	4	26.6	28.4	97.1	95.6	13.0	12.0	0.8	1.0
Registered nurses	4 422	3 696	726	3 355	610	181	94	110	20	39.0	34.2	93.3	96.3	29.4	33.7	6.7	5.4
Other health assessment and treating occupations	1 434	1 019	415	920	379	10	32	21	30	36.8	31.6	99.2	100.0	73.7	56.6	1.5	—
Teachers, except postsecondary	765	720	45	720	130	31	32	9	—	49.3	38.9	94.6	70.5	44.6	13.9	2.2	4.0
Social scientists and urban planners	1 328	1 058	270	996	239	53	31	26	26	40.5	32.2	100.0	95.2	98.0	84.4	0.9	2.2
Social and recreation workers	5 230	3 476	1 754	3 012	1 572	245	108	225	94	39.6	33.3	93.6	94.1	38.6	37.1	5.9	5.5
Lawyers and judges	426	210	153	153	177	48	26	6	7	39.7	37.7	83.8	87.0	37.6	25.9	—	—
Writers, artists, entertainers, and athletes	1 078 206	685 363	392 843	568 337	312 887	88 848	63 066	35 535	19 124	42.0	34.8	88.3	90.2	13.8	11.4	0.6	0.8
Other professional specialty occupations	84 659	78 566	6 093	74 826	5 261	2 067	565	1 711	274	38.8	30.9	95.8	91.5	38.6	21.4	1.7	1.7
Technical, sales, and administrative support occupations	8 777	6 471	2 306	6 025	2 181	260	92	174	45	25.7	28.7	91.2	91.2	5.8	8.6	1.5	1.3
Technicians and related support occupations	172	51	45	45	114	6	7	—	—	49.3	33.6	70.6	84.3	—	6.6	15.7	—
Health technologists and technicians	8 605	6 420	2 185	5 980	2 067	254	85	174	43	25.3	28.4	91.3	91.5	5.9	8.7	1.4	1.4
Licensed practical nurses	8 316	7 519	797	6 263	555	832	162	289	53	41.1	32.3	87.9	92.8	9.8	14.2	0.7	1.5
Other health technologists and technicians	4 326	4 191	135	3 402	91	543	28	138	5	39.9	34.0	95.4	95.6	5.9	9.6	0.3	—
Engineering and science technicians	1 256	1 237	306	1 201	10	15	—	29	—	45.8	37.5	65.4	100.0	19.8	9.6	—	—
Electrical and electronic technicians	1 641	1 325	306	1 126	217	99	41	75	25	37.0	29.2	92.1	92.2	16.1	16.3	2.7	2.3
Industrial and mechanical engineering technicians	2 093	1 756	337	1 524	228	175	93	47	23	37.0	34.8	69.8	92.0	12.8	14.8	0.5	1.5
Drafting and surveying technicians	67 566	44 576	22 990	62 548	2 525	975	311	1 248	176	39.8	32.0	97.2	91.5	46.5	33.3	1.8	2.0
Other engineering and science technicians	58 233	57 533	700	56 321	676	488	19	942	43	40.0	32.5	97.7	95.0	48.7	39.9	1.9	7.6
Technicians, except health, engineering, and science	4 257	3 070	1 187	2 733	986	150	81	23	26	46.8	34.4	83.5	71.3	19.3	4.2	0.4	1.3
Airplane pilots and navigators	3 291	2 662	629	2 290	483	267	105	89	24	33.9	30.6	98.8	96.8	42.8	47.1	0.4	—
Air traffic controllers and broadcast equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer programmers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Other transportation									
	Total					Race					Spanish origin ¹					Median age				
	Both sexes		Male			White		Black			Male		Female			Male		Female		
			Male	Female		Male	Female	Male	Female		Male	Female	Male	Female		Male	Female	Male	Female	
Technical, sales, and administrative support occupations—Con.																				
Supervisors and proprietors, sales occupations	105 935	38 989	66 946	33 903	60 706	3 172	3 605	2 339	2 628	41.5	35.7	87.5	93.7	91.4	21.9	26.3	21.9	5.5	3.0	
Sales representatives, finance and business services	5 646	3 522	1 136	3 510	1 037	1 660	58	304	103	39.8	33.6	90.3	91.4	93.0	25.6	31.8	25.6	9.7	7.2	
Sales representatives, commodities, except retail	4 598	3 545	1 045	3 139	946	1 660	58	276	83	39.3	32.8	91.8	91.8	93.0	27.6	31.8	27.6	9.7	7.2	
Sales workers, retail and personal services	77 062	21 100	55 962	19 156	52 355	702	1 342	1 203	2 076	40.1	35.2	93.2	96.3	92.5	34.9	31.0	34.9	98.4	90.1	
Cashiers	23 626	13 844	9 782	11 171	7 248	15	2 205	819	449	50.0	35.0	100.0	100.0	100.0	36.1	36.1	36.1	8.0	3.3	
Other sales occupations, retail and personal services	21 403	12 919	8 812	10 175	6 347	2 293	2 177	784	410	44.8	39.3	76.9	79.1	77.6	5.6	8.6	5.6	0.7	0.8	
Sales related occupations	2 023	1 053	970	946	681	68	28	35	39	45.5	40.5	78.9	77.6	77.6	4.8	8.1	4.8	0.6	0.9	
Administrative support occupations, including clerical	567 612	319 804	246 920	83 609	246 920	83 609	58 896	31 485	16 222	42.7	34.8	87.3	89.5	89.5	39.2	34.8	39.2	3.7	11.8	
Supervisors, administrative support occupations	86 273	44 500	11 773	35 374	7 500	7 500	2 620	2 039	1 515	43.9	39.4	90.2	90.2	90.2	9.0	9.3	9.0	0.2	0.3	
Computer equipment operators	6 393	2 909	3 484	2 194	2 688	511	194	153	226	35.6	30.7	93.7	93.7	93.7	10.8	13.3	10.8	0.2	0.5	
Stenographers, stenographers, and typists	47 512	21 001	46 311	940	40 164	183	4 119	153	3 127	35.9	33.1	87.7	87.7	87.7	6.8	17.2	6.8	1.2	0.4	
Secretaries	8 883	640	38 243	491	34 266	98	1 648	91	2 575	37.8	30.6	88.4	88.4	88.4	7.2	17.1	7.2	1.3	0.4	
Stenographers and typists	8 629	561	8 068	449	5 898	85	2 678	100	2 678	37.8	30.6	88.4	88.4	88.4	4.9	17.1	4.9	1.1	0.4	
Receptionists	5 606	1 029	4 577	810	3 679	189	694	100	2 678	42.7	30.6	88.4	88.4	88.4	9.9	17.1	9.9	0.5	0.3	
Other information clerks	80 211	32 109	48 102	27 250	40 355	2 879	5 281	2 330	3 164	35.0	30.6	88.1	85.7	85.7	19.7	20.2	19.7	0.4	0.3	
File clerks	3 709	1 413	2 296	1 068	1 672	221	473	150	211	37.1	32.9	86.2	85.7	85.7	7.2	15.6	7.2	0.5	0.3	
Other records processing occupations, except financial	4 234	1 671	2 083	1 671	1 672	377	447	151	120	41.0	30.9	86.1	86.1	86.1	11.5	11.5	11.5	0.2	0.2	
Bookkeepers, accounting, and auditing clerks	26 265	5 487	20 778	4 658	18 240	351	1 131	621	1 460	38.2	36.5	91.9	91.9	91.9	8.8	24.0	8.8	1.5	1.3	
Payroll and timekeeping clerks	5 130	2 545	2 585	2 075	1 804	363	629	126	170	46.0	39.6	88.3	88.3	88.3	6.5	13.4	6.5	0.5	0.5	
Other financial records processing occupations	4 516	1 707	2 809	1 344	2 457	161	232	102	127	41.2	31.7	85.5	89.0	89.0	7.0	20.7	7.0	1.2	0.4	
Telephone operators	2 419	961	2 058	1 361	1 576	87	489	102	127	35.6	36.1	86.7	86.7	86.7	3.4	18.0	3.4	2.5	0.2	
Mail and message distributing occupations	598 416	398 648	129 748	322 095	90 070	60 796	35 374	20 072	4 077	44.1	33.6	86.8	86.8	86.8	7.2	18.0	7.2	0.2	0.2	
Production coordinators and expeditors	10 275	7 172	3 103	6 016	2 527	3 450	1 725	2 664	1 188	42.1	33.6	86.8	86.8	86.8	14.9	14.9	14.9	0.1	0.9	
Traffic, shipping, and receiving clerks	33 479	27 204	6 275	22 256	5 382	3 450	1 725	2 664	1 188	42.1	33.6	86.8	86.8	86.8	14.9	14.9	14.9	0.1	0.9	
Stock and inventory clerks	8 821	7 314	1 507	5 809	1 232	998	1 725	2 664	1 188	42.1	33.6	86.8	86.8	86.8	14.9	14.9	14.9	0.1	0.9	
Order clerks, clerical, scheduling, and distributing clerks	14 645	10 992	3 653	9 212	1 973	1 461	654	615	122	42.5	33.6	86.8	86.8	86.8	14.9	14.9	14.9	0.1	0.9	
Advisers and investigators	5 543	3 001	2 542	2 571	1 973	319	368	255	169	42.1	33.6	86.8	86.8	86.8	14.9	14.9	14.9	0.1	0.9	
Date-entry keyers	6 288	1 114	5 174	781	3 562	228	1 208	67	480	33.6	31.7	90.3	91.4	91.4	6.3	11.5	6.3	1.3	0.8	
Other administrative support occupations	37 877	16 931	20 946	13 195	16 340	2 724	3 453	1 255	1 311	42.0	34.3	84.7	84.7	84.7	8.5	14.1	8.5	0.5	0.7	
Service occupations	155 164	78 867	76 297	52 564	62 188	20 508	9 995	7 531	3 904	40.5	31.6	67.7	86.2	86.2	20.3	9.2	20.3	0.5	0.3	
Private household occupations	13 641	11 203	2 438	8 235	1 694	2 570	568	741	194	40.2	32.6	78.6	78.6	78.6	4.9	9.3	4.9	0.1	0.1	
Protective service occupations	12 205	9 830	2 375	7 000	1 642	2 463	557	704	194	40.4	32.5	77.2	77.2	77.2	4.6	9.6	4.6	0.1	0.1	
Guards	1 436	1 373	63	1 373	52	107	11	11	11	39.4	35.6	88.3	88.3	88.3	7.7	14.3	7.7	0.6	0.3	
Other protective service occupations	141 523	67 664	73 859	44 329	60 494	17 938	9 427	6 790	3 710	40.6	31.5	65.9	86.5	86.5	9.2	20.8	9.2	0.6	0.3	
Food preparation and service occupations	10 689	5 803	4 886	3 791	3 263	1 339	1 108	1 032	769	45.2	42.1	53.6	53.6	53.6	4.5	4.5	4.5	0.5	0.5	
Health service occupations	3 657	2 372	1 285	3 791	1 047	142	2 155	1 134	34	25.4	31.1	82.5	82.5	82.5	31.1	31.1	31.1	0.6	0.7	
Cleaning and building service occupations, except household	42 495	35 306	7 189	23 388	3 864	9 761	2 815	3 409	501	46.5	46.4	56.5	56.5	56.5	2.7	2.7	2.7	0.3	0.3	
Personal service occupations	84 682	49 499	35 196	14 995	12 985	6 696	5 292	2 215	2 406	34.1	30.7	80.8	80.8	80.8	24.6	24.6	24.6	1.1	0.3	
Farming, forestry, and fishing occupations	1 976	1 695	281	1 287	245	309	27	144	12	33.3	26.4	55.6	59.1	59.1	8.9	5.6	8.9	5.4	5.7	
Precision production, craft, and repair occupations	179 646	175 662	3 984	149 042	3 166	18 274	555	10 800	275	40.8	34.9	78.9	81.9	81.9	11.2	4.6	11.2	1.0	1.2	
Mechanics and repairers	133 281	131 490	1 791	111 373	1 388	13 477	278	8 107	104	40.8	34.9	78.9	81.9	81.9	7.8	3.8	7.8	1.0	1.2	
Supervisors, mechanics and repairers	9 940	9 743	197	8 706	169	760	11	331	—	46.8	34.3	65.0	84.3	81.7	22.8	5.6	22.8	0.6	3.0	
Automobile mechanics, including body	14 006	13 871	135	10 381	101	2 404	23	1 315	8	40.1	31.5	65.0	84.3	81.7	10.4	1.6	10.4	0.7	0.7	
Industrial machinery repairers	5 155	5 115	40	4 038	30	965	—	1 188	10	40.3	31.0	75.4	85.0	85.0	2.7	2.7	2.7	0.5	0.5	
Electronic repairs, communications and industrial equipment	3 177	3 126	51	2 815	27	206	20	135	4	37.2	32.6	92.0	90.2	90.2	7.5	—	7.5	0.5	0.5	
Heating, air conditioning, and refrigeration mechanics	985	973	12	741	12	133	—	68	—	46.0	32.5	77.2	100.0	100.0	3.5	—	3.5	0.7	1.7	
Other mechanics and repairers	100 018	98 662	1 356	84 692	1 049	9 029	224	6 070	82	40.8	32.5	80.3	80.3	80.3	5.9	3.9	5.9	1.3	1.3	
Construction trades	16 803	16 529	274	13 746	238	2 145	15	992	10	40.7	32.5	76.0	70.4	70.4	8.4	3.9	8.4	0.8	0.8	
Supervisors, construction occupations	1 603	1 591	12	1 345	12	176	—	59	—	47.2	35.0	82.3	50.0	50.0	7.4	—	7.4	0.3	0.3	
Carpenters	2 697	2 644	53	2 350	41	209	5	169	7	42.5	33.1	82.3	64.1	69.8	3.7	3.7	3.7	1.9	1.9	
Electricians	5 815	5 792	23	4 866	17	733	—	276	—	41.2	34.1	82.8	64.1	69.8	3.7	3.7	3.7	0.3	0.3	
Painters, construction and maintenance	1 720	1 689	31	1 323	23	250	3	183	3	40.1	32.9	66.5	82.8	80.4	2.2	2.2	2.2	1.7	1.7	
Plumbers, pipefitters, and steamfitters	1 420	1 406	14	1 129	14	242	—	158	—	39.2	35.7	77.4	100.0	100.0	4.3	—	4.3	0.1	0.1	
Other construction trades	3 548	3 407	141	2 713	127	555	7	227	—	35.7	35.7	77.4	77.4	77.4	8.5	—	8.5	0.1	0.1	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see appendix A.)

United States	Other transportation									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male						
Precision production, craft, and repair occupations—Con.										
Extraction occupations	439	433	6	345	75	—	38.4	25—	76.0	100.0
Precision production occupations	29 123	27 210	1 913	23 576	2 527	262	44.3	38.2	80.1	85.7
Supervisors, production occupations	14 828	13 518	1 310	11 714	1 429	155	44.1	37.2	81.2	92.2
Precision manufacturing occupations	5 486	5 486	—	5 486	513	18	42.4	42.6	76.7	73.3
Tool and die makers	147	147	—	141	—	—	51.2	—	83.0	—
Stenographers	3 415	3 415	35	2 901	357	18	41.8	44.6	77.2	62.3
Other metal workers	1 735	1 706	29	1 559	58	—	43.9	42.9	76.4	62.1
Other metalworking machine workers	452	418	34	309	98	—	43.9	42.9	76.4	62.1
Precision textile, apparel, and furnishings machine workers	361	261	100	169	64	19	41.7	39.9	71.8	100.0
Precision food production occupations	234	232	2	3 921	37	—	41.7	39.9	71.8	100.0
Precision inspectors, testers, and related workers	4 034	3 921	113	3 492	202	44	48.3	40.0	53.4	100.0
Plant and system operators	3 501	3 347	154	2 881	306	21	45.8	45.8	85.7	70.8
Other precision production occupations	363	245	118	230	6	5	44.0	38.8	79.5	83.8
Operators, fabricators, and laborers	512 568	432 988	80 180	305 571	104 315	14 890	39.5	36.8	65.5	70.7
Machine operators, assemblers, and inspectors	22 837	19 983	2 854	15 170	3 754	828	36.9	32.8	67.6	72.5
Machine operators and tenders, except precision	11 793	9 830	1 963	7 072	2 143	640	35.6	32.3	67.3	74.8
Metalworking and plastic working machine operators	610	568	42	504	50	19	41.6	25—	69.5	83.3
Fabricating machine operators, n.e.c.	65	43	22	18	—	—	39.7	30.0	86.0	100.0
Metal and plastic processing and woodworking machine operators	478	452	26	337	103	—	40.3	31.4	52.4	69.2
Printing machine operators	667	523	144	420	80	28	33.8	32.2	91.2	69.4
Textile machine operators	66	66	—	46	20	—	36.3	—	65.2	—
Textile sewing machine operators	79	48	31	20	28	—	56.4	38.2	—	74.2
Laundry and dry cleaning machine operators	44	17	27	14	—	—	41.1	36.9	17.6	24.5
Podding and filling machine operators	104	75	29	52	5	—	37.2	25—	88.0	94.5
Furnace, kiln, and oven operators, except food	636	644	12	427	184	—	48.2	40.0	61.0	100.0
Other specified machine operators	1 067	627	140	644	146	26	38.0	30.9	64.4	78.8
Miscellaneous and not specified machine operators	7 737	6 467	1 470	4 572	1 509	525	34.1	32.8	68.1	76.8
Fabricators, assemblers, and hand working occupations	7 238	6 680	588	5 915	1 122	172	35.3	32.7	62.7	63.9
Welders and brazers	4 692	4 687	35	3 710	718	37	34.8	31.8	62.7	65.7
Solders and craters	1 923	1 435	488	1 055	306	14	50.0	26.1	40.0	46.0
Assemblers	593	553	40	443	108	17	35.1	32.7	72.1	61.9
Hand working occupations	3 806	3 503	303	2 885	479	78	40.3	42.7	61.5	80.0
Production inspectors, testers, samplers, and weighers	277	196	101	115	62	28	44.2	37.4	71.6	74.3
Graders and sorters, except agricultural	3 509	3 307	202	2 770	417	50	35.0	40.7	74.5	76.2
Other production inspectors, testers, samplers, and weighers	993 970	824 161	169 809	558 933	175 697	11 187	44.5	35.7	77.8	73.3
Transportation and material moving occupations	373 198	304 411	68 787	235 248	70 182	11 187	40.3	37.1	65.2	71.3
Motor vehicle operators	317 261	249 354	67 907	172 519	64 216	10 881	40.1	37.1	65.9	71.4
Truck drivers	31 089	28 062	2 127	21 366	6 437	378	38.2	37.0	68.8	72.7
Driver-sales workers	285 438	220 132	65 306	150 299	57 595	10 502	38.3	37.1	69.2	78.4
Other motor vehicle operators	35 732	34 757	974	34 814	5 946	674	38.9	34.0	61.1	71.4
Rail and water transportation occupations	20 172	13 520	6 652	48 145	3 915	233	38.9	34.0	61.1	71.4
Material moving equipment operators	3 592	3 520	72	3 492	5 215	73	47.0	43.7	54.0	52.6
Supervisors, material moving equipment operators	1 851	1 851	—	1 851	46	—	47.0	43.7	54.0	52.6
Crane, hoist, and winch operators	1 377	1 350	27	1 310	38	—	40.2	55.8	59.9	70.8
Excavating, grading, and dozer machine operators	14 235	13 951	304	8 514	4 519	66	38.9	35.5	45.4	85.2
Other material moving equipment operators	96 361	88 244	8 117	58 006	24 864	2 751	37.4	35.2	66.4	65.2
Handlers, equipment cleaners, helpers, and laborers	1 899	1 787	112	1 463	246	76	40.6	55.6	90.6	84.8
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	1 887	1 793	94	1 240	419	28	32.5	24.1	59.2	75.5
Helpers, craft and production	758	739	19	485	191	7	34.3	40.1	54.3	52.6
Construction laborers	64 965	61 350	3 615	39 820	18 164	1 647	38.9	34.2	68.1	78.2
Freight, stock, and material handlers	8 264	6 780	1 484	4 505	1 696	445	31.1	37.2	61.1	53.8
Garage and service station occupations, and equipment cleaners	2 604	1 562	1 042	1 117	324	207	33.2	35.1	36.1	49.6
Hand packers and packagers	15 984	14 233	1 751	9 378	3 914	381	33.8	37.3	60.7	55.8
Laborers, except construction										
Percent completed 4 or more years of college										
Male	12.9	8.6	100.0	12.9	8.6	100.0	12.9	8.6	100.0	100.0
Female	11.8	9.2	14.5	11.8	9.2	14.5	11.8	9.2	14.5	14.5
Percent self-employed	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Male	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Female	—	—	—	—	—	—	—	—	—	—
Percent high school graduates	76.0	80.1	85.7	76.0	80.1	85.7	76.0	80.1	85.7	85.7
Male	76.0	80.1	85.7	76.0	80.1	85.7	76.0	80.1	85.7	85.7
Female	76.0	80.1	85.7	76.0	80.1	85.7	76.0	80.1	85.7	85.7
Percent completed 4 or more years of college	12.9	8.6	100.0	12.9	8.6	100.0	12.9	8.6	100.0	100.0
Male	12.9	8.6	100.0	12.9	8.6	100.0	12.9	8.6	100.0	100.0
Female	11.8	9.2	14.5	11.8	9.2	14.5	11.8	9.2	14.5	14.5
Percent self-employed	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Male	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Female	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Communications															
Race															
Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college			
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over															
Managerial and professional specialty occupations															
330 070	229 029	101 041	213 323	86 629	10 515	6 394	3 703	37.7	33.6	96.2	95.5	18.6	10.5	0.2	
158 799	100 841	57 958	95 541	49 797	3 733	2 170	1 955	42.1	36.6	97.6	95.8	39.8	29.9	1.2	
11	4	7	4	7	—	—	—	40.0	30.0	100.0	100.0	41.9	21.1	0.6	
4 376	3 045	1 331	2 876	1 161	128	40	78	39.4	38.3	99.1	96.8	63.5	24.5	0.3	
13 048	10 294	2 754	9 997	2 527	244	189	88	39.4	37.6	98.1	97.6	63.5	24.5	0.2	
213	141	72	110	49	26	5	—	43.8	30.9	100.0	100.0	27.7	41.2	0.6	
6 938	4 236	2 702	3 891	2 303	281	91	102	44.6	38.4	95.9	96.5	30.0	—	—	
104 192	68 664	35 528	65 445	31 115	2 166	1 366	972	43.0	37.6	96.7	93.8	48.0	22.9	0.5	
103 233	67 870	35 363	64 657	30 950	1 65	1 379	992	43.1	37.5	96.8	93.8	38.4	18.9	1.1	
959	794	165	788	165	6	7	—	46.2	37.6	88.2	97.6	38.4	18.9	0.3	
Management related occupations															
30 021	14 577	15 544	13 218	12 635	888	2 219	459	39.3	34.9	97.0	96.1	31.2	19.4	74.5	
10 401	5 270	5 331	4 721	4 283	378	614	315	34.5	33.5	95.3	96.8	44.4	21.9	0.6	
12 387	5 328	7 059	4 922	5 748	302	1 047	277	43.1	37.5	95.9	95.3	27.0	27.9	0.8	
1 397	893	504	825	427	47	44	7	42.2	32.1	91.6	92.3	26.9	13.1	—	
344	268	76	242	143	19	6	—	44.1	36.5	82.5	97.4	11.6	—	0.6	
5 272	2 698	2 594	2 508	2 114	142	420	81	39.2	34.5	97.8	97.5	51.3	25.9	3.0	
Professional specialty occupations															
171 271	128 188	43 083	117 762	36 832	6 782	4 224	1 748	33.7	30.8	95.5	96.3	38.1	41.8	1.3	
56 245	47 066	9 179	44 118	7 800	1 605	1 250	400	41.0	33.2	97.7	97.7	30.8	21.6	0.5	
56 229	46 863	9 137	43 932	7 765	1 598	1 236	393	38.5	31.6	100.0	100.0	55.2	80.0	0.2	
233	1 094	1 032	31	8	34	—	—	42.1	38.9	97.5	97.7	30.7	27.4	0.5	
49 659	41 350	8 329	38 763	7 070	1 397	978	372	41.1	33.4	97.6	97.6	34.5	27.3	0.5	
1 089	978	111	868	101	37	22	17	43.1	29.2	94.9	98.0	29.9	27.2	0.5	
642	433	579	403	141	37	31	—	38.8	25	98.1	100.0	36.5	37.8	0.8	
3 354	2 819	515	2 636	428	106	83	4	39.1	32.0	98.9	98.4	43.3	25.6	1.9	
16	9	7	9	7	—	—	—	25	30.0	100.0	100.0	33.3	28.3	0.3	
Computer systems analysts and scientists															
5 832	3 916	1 916	3 555	1 578	221	158	66	33.6	31.5	98.5	98.1	54.1	44.7	0.3	
2 480	1 566	914	1 422	775	79	51	5	37.6	33.6	98.9	97.4	52.3	36.9	0.4	
685	326	339	315	281	5	29	6	40.5	30.6	98.3	98.3	57.9	36.0	—	
1 202	103	299	740	16	15	15	21	35.7	31.2	98.2	98.3	57.9	36.0	—	
864	677	187	642	171	15	15	8	43.4	32.6	100.0	100.0	60.2	34.3	0.8	
237	191	46	191	46	—	—	—	43.4	29.1	97.9	97.3	57.6	29.9	0.9	
545	112	433	112	388	46	45	5	46.6	48.3	100.0	100.0	78.5	91.3	2.6	
444	27	417	27	372	—	—	—	35.0	42.2	91.1	97.0	45.5	32.1	5.4	
101	85	16	85	16	—	—	—	44.4	42.6	100.0	96.9	40.7	30.5	—	
1 922	734	1 188	660	998	—	13	—	29.6	33.9	88.2	100.0	47.1	75.0	7.1	
4 680	2 803	1 877	2 511	1 517	168	293	77	37.1	34.5	98.1	96.8	26.7	14.9	1.5	
138	30	108	30	84	—	—	—	31.2	31.2	99.5	97.2	66.3	42.7	0.5	
1 420	1 083	337	1 050	259	33	25	8	46.1	34.3	100.0	95.4	23.1	23.1	0.1	
94 519	68 860	25 659	42 557	22 554	4 454	2 571	1 101	38.6	31.7	100.0	100.0	97.8	89.0	1.1	
1 522	721	801	521	582	156	57	39	30.5	29.4	93.6	95.5	39.5	48.4	2.0	
722 299	208 326	513 963	183 191	413 952	17 114	80 738	9 582	26 033	34.7	33.1	94.3	92.0	19.5	7.2	0.3
73 492	56 095	17 997	49 892	14 251	3 810	2 271	2 202	1 022	34.5	31.2	95.4	95.0	15.5	23.2	0.4
25	52	25	52	25	—	—	—	20	30.1	28.8	100.0	100.0	15.4	29.3	0.3
119	52	67	52	54	—	—	—	20	30.1	33.6	100.0	100.0	24.0	31.3	—
Engineering and science technicians															
23 537	16 736	6 801	14 889	772	1 065	718	485	34.8	33.1	95.0	93.5	10.6	9.2	0.3	
12 652	11 618	1 034	10 348	896	684	524	74	35.0	30.4	95.1	93.4	9.2	15.3	0.3	
270	224	46	224	46	4	—	—	37.1	29.1	93.3	100.0	11.2	54.3	0.7	
6 714	2 515	4 199	2 137	3 548	26	501	116	244	31.8	33.2	95.9	10.6	7.9	0.6	
Other engineering and science technicians	3 901	2 379	1 522	1 229	113	173	78	162	37.9	35.5	94.1	92.9	17.2	7.2	0.2
Technicians, except health, engineering, and science	49 811	39 307	10 504	34 956	8 462	1 499	1 484	517	34.5	30.2	95.6	95.9	17.6	32.3	0.5
Airplane pilots and navigators	13 775	11 623	2 157	10 449	13	—	—	—	38.1	—	97.0	—	34.6	27.6	0.9
Air traffic controllers and broadcast equipment operators	9 266	4 002	1 757	860	290	—	373	59	33.4	27.3	93.8	92.4	20.8	27.6	0.2
Computer programmers	26 539	22 189	4 350	19 748	1 386	731	373	59	31.3	29.5	99.4	96.2	30.5	50.6	0.1
Other technicians, except health, engineering, and science	1	—	—	—	—	—	960	274	36.2	31.7	95.6	95.6	8.2	17.7	0.4
¹ Persons of Spanish origin may be of any race.															

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Employed persons 16 years and over—Con.												
Occupation	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male								
Technical, sales, and administrative support occupations—Con.												
Sales occupations	55 268	28 900	26 348	22 820	1 708	2 888	884	1 114	34.2	32.1	40.7	22.6
Supervisors and proprietors, sales occupations	2 788	2 002	786	712	63	56	66	18	39.6	38.7	30.0	17.0
Self-employed	2 742	1 975	767	693	63	56	61	18	39.6	38.7	29.7	17.5
Sales representatives, finance and business services	46 050	25 311	20 739	18 129	1 514	2 122	739	752	37.5	42.9	51.9	—
Sales representatives, commodities, except retail	2 119	1 392	4 783	3 919	131	710	79	344	34.0	42.1	26.6	—
Sales workers, retail and personal services	3 149	1 366	4 783	3 919	131	710	79	344	34.0	42.1	26.6	—
Cashiers	3 946	2 253	3 693	2 969	63	402	17	249	31.6	35.0	30.4	6.1
Other sales occupations, retail and personal services	2 203	1 113	943	950	68	108	62	95	32.0	36.4	19.8	3.0
Sales related occupations	62	29	33	33	—	—	—	—	31.5	31.6	32.8	16.8
Administrative support occupations, including clerical	593 539	123 341	470 198	376 881	11 596	75 579	6 496	23 897	35.0	33.2	16.3	5.7
Supervisors, administrative support occupations	93 421	53 247	40 174	33 512	2 734	5 692	1 464	3 174	42.4	42.4	16.5	9.5
Computer equipment operators	14 002	4 710	9 292	7 015	577	1 858	284	536	30.4	32.6	18.0	8.9
Secretaries, stenographers, and typists	65 375	1 278	63 797	53 752	229	7 793	167	3 287	29.5	31.3	21.6	5.8
Stenographers and typists	46 279	631	45 648	40 235	55	4 022	52	2 143	31.7	31.9	32.0	6.4
Receptionists	19 096	947	18 149	13 517	174	3 771	115	1 444	28.4	29.6	14.7	4.3
Other information clerks	5 302	240	5 062	4 023	18	822	7	400	28.5	29.6	15.4	5.7
File clerks	13 040	2 606	10 434	8 094	334	1 840	143	480	32.8	33.0	25.6	6.1
Other records processing occupations, except financial	4 092	574	3 518	2 515	78	860	47	219	27.6	33.4	10.1	4.9
Bookkeepers, accounting, and auditing clerks	76 832	11 177	65 655	53 372	1 089	9 996	851	3 440	29.9	31.9	20.6	8.3
Payroll and timekeeping clerks	19 548	1 843	17 705	15 329	247	1 811	99	809	32.3	36.3	32.1	5.0
Other financial records processing occupations	4 383	312	4 071	3 333	24	472	5	257	28.4	33.9	19.2	4.4
Telephone operators	6 511	966	5 545	4 535	97	868	84	230	34.7	34.2	27.4	3.4
Mail and message distributing occupations	136 791	15 728	121 063	94 015	2 021	22 528	1 295	6 239	27.4	33.4	10.1	3.3
Production coordinators and expeditors	5 957	3 149	2 808	1 998	720	672	345	273	31.5	31.9	27.6	11.8
Traffic, shipping, and receiving clerks	8 886	2 370	6 516	5 418	219	901	76	273	32.0	32.1	3.6	4.9
Stock and inventory clerks	2 781	1 021	1 760	1 450	249	259	72	82	33.1	33.1	7.7	2.8
Other material recording, scheduling, and distributing clerks	7 559	4 141	3 418	2 743	743	540	271	242	40.2	33.9	24.0	11.9
Adjusters and investigators	10 130	2 305	7 825	6 410	134	1 219	122	268	33.5	32.9	24.0	11.9
Door-entry layers	9 627	2 992	6 635	5 365	287	1 047	206	377	35.0	30.7	13.9	4.9
Other administrative support occupations	8 838	1 489	7 349	5 480	243	1 415	89	520	31.9	34.1	18.1	4.9
Service occupations	16 993	10 335	6 658	4 557	2 350	1 809	707	307	43.3	46.2	5.9	2.6
Private household occupations	2 680	2 086	594	433	551	141	110	6	—	—	—	—
Protective service occupations	2 462	1 912	550	396	545	134	94	6	47.4	33.9	11.9	4.5
Guards	218	174	44	37	6	7	16	6	47.6	34.6	9.9	4.9
Other protective service occupations	14 313	8 249	6 064	4 124	1 799	1 668	597	301	44.8	30.2	33.9	86.4
Food preparation and service occupations	1 528	482	1 046	853	47	152	41	27	42.3	47.1	4.4	2.4
Health service occupations	113	14	99	83	—	16	—	—	72.2	68.9	11.6	2.6
Cleaning and building service occupations, except household	11 438	7 256	4 202	2 708	1 697	1 318	460	235	45.0	47.8	2.9	1.1
Personal service occupations	1 214	497	717	480	55	182	96	39	44.1	48.8	20.1	8.4
Farming, forestry, and fishing occupations	327	291	36	20	60	6	6	—	39.4	52.5	8.2	—
Precision production, craft, and repair occupations	341 990	308 239	33 751	27 598	18 044	4 750	12 939	1 933	35.2	32.6	3.6	6.3
Mechanics and repairers	317 217	288 149	29 048	23 831	17 033	4 030	12 266	1 664	34.9	32.2	3.2	5.4
Supervisors, mechanics and repairers	11 801	11 061	740	628	304	71	263	63	42.3	37.4	6.8	14.1
Automotive mechanics, including body	2 816	2 683	133	104	320	29	134	33	38.6	32.2	2.6	0.6
Industrial machinery repairers	1 629	1 538	91	80	97	11	55	5	40.3	33.3	5.0	5.5
Electronic repairers, communications and industrial equipment	16 386	15 746	640	541	827	62	876	37	29.7	29.6	5.8	5.0
Heating, air conditioning, and refrigeration mechanics	283 828	256 387	27 444	22 461	15 409	3 851	10 917	1 559	43.3	32.1	5.6	5.3
Other mechanics and repairers	11 700	10 743	957	774	523	138	387	31	34.9	38.8	91.5	0.3
Construction trades	5 617	5 418	199	169	86	30	143	—	37.5	38.8	5.4	20.3
Supervisors, construction occupations	653	602	51	31	26	20	38	—	41.7	34.8	6.7	15.1
Carpenters	1 713	1 494	219	171	129	36	53	14	35.1	34.7	7.1	10.0
Electricians	1 188	1 157	31	16	12	15	19	—	35.7	31.7	4.9	9.1
Painters, construction and maintenance	422	120	302	299	11	—	—	—	35.7	30.3	61.8	74.2
Plumbers, pipefitters, and steamfitters	3 107	2 952	155	88	259	37	134	17	40.2	61.9	10.8	50.3
Other construction trades	—	—	—	—	—	—	—	—	30.8	29.2	2.8	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Communications													
Race													
Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male		Female
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Extrusive occupations													
12 977	9 272	3 705	8 540	2 978	15	6	7	238	38.5	30.0	85.5	100.0	9.1
8 133	5 710	2 423	5 362	1 951	151	406	279	166	42.9	36.6	92.3	91.8	0.2
71	645	126	552	103	23	23	177	166	38.2	38.4	92.3	91.8	0.1
128	114	14	114	14	—	—	—	—	38.2	34.4	91.2	100.0	—
367	340	29	278	23	6	6	18	—	42.9	30.0	91.2	100.0	—
30	30	—	30	—	—	—	—	—	39.2	43.3	—	—	—
244	161	83	130	66	17	17	10	—	32.1	76.7	74.7	55.2	20.7
29	28	6	28	6	—	—	—	—	33.0	34.0	77.6	90.4	—
38	28	10	28	10	—	—	—	—	46.8	40.0	64.3	50.0	—
2 026	1 251	775	1 088	401	125	116	28	30	43.3	32.9	93.5	89.3	21.4
1 441	1 434	207	1 319	207	83	31	46	19	42.8	37.0	86.0	93.7	2.7
359	218	141	165	83	19	31	—	—	31.9	29.0	91.7	76.6	8.6
29 189	18 544	10 645	15 020	8 059	2 735	2 165	1 013	609	33.6	34.1	74.5	76.8	2.8
14 045	6 921	7 124	5 551	5 307	1 005	1 478	340	437	34.8	34.7	80.9	76.2	6.0
6 987	3 569	3 418	2 846	2 484	573	776	167	199	32.6	33.8	78.5	78.1	8.4
222	178	44	153	44	8	9	17	—	33.2	49.4	66.9	45.5	15.7
48	29	19	21	10	9	—	—	—	37.7	45.5	69.0	10.5	—
142	109	33	60	26	40	—	15	—	32.7	40.0	62.4	81.8	—
725	461	264	356	215	74	28	6	20	29.6	29.0	84.6	83.3	8.9
74	19	55	19	25	—	30	—	3	50.0	48.0	73.7	60.0	—
30	14	16	14	16	—	—	—	—	47.2	48.8	100.0	50.0	—
49	—	—	—	—	—	38	—	—	—	40.8	—	65.3	—
53	17	36	17	29	3	7	—	—	38.5	25	100.0	100.0	—
56	—	—	—	—	—	—	—	—	47.7	—	51.8	82.1	—
974	499	475	419	368	70	100	25	17	33.2	31.8	79.0	82.1	11.8
4 614	2 187	2 427	1 734	1 740	370	564	133	159	32.5	34.2	79.3	80.8	7.4
3 745	1 434	2 311	961	1 738	298	428	104	174	32.9	35.4	77.3	66.7	9.6
269	219	50	264	27	32	73	5	6	38.7	32.6	66.2	58.0	1.7
144	50	94	33	71	17	15	—	—	38.2	33.1	86.0	80.9	0.9
3 198	1 118	2 080	699	1 584	260	373	121	168	31.6	35.8	78.7	65.5	5.3
134	47	87	47	56	15	15	—	—	36.8	32.4	85.1	85.1	1.3
3 313	1 918	1 395	1 744	1 085	134	274	40	64	44.9	36.7	88.1	83.2	8.0
92	42	50	27	42	15	5	—	3	26.8	29.4	88.1	88.0	4.9
3 221	1 876	1 345	1 717	1 043	119	269	40	61	45.1	36.9	88.1	83.0	—
5 932	4 932	1 000	3 957	795	831	185	248	63	34.1	31.9	72.3	81.7	8.2
4 487	3 711	776	2 944	626	649	143	174	34	34.6	30.9	71.0	83.4	5.1
3 531	2 856	675	2 177	550	587	118	162	34	33.8	31.0	66.8	80.9	3.7
3 003	2 408	595	1 843	482	497	106	125	27	33.2	31.0	68.1	79.7	2.0
56	44	12	38	7	6	5	35	7	29.7	33.6	43.2	100.0	1.6
472	404	68	296	61	84	7	32	7	44.2	30.2	61.6	88.2	4.2
956	635	101	767	169	62	25	14	—	39.1	29.0	84.8	100.0	5.0
1 445	1 221	224	1 013	76	42	42	74	29	32.7	37.9	76.4	75.9	7.7
139	105	25	92	13	—	—	—	—	43.4	46.9	82.9	100.0	4.8
79	61	18	48	13	5	5	—	—	31.1	30.0	63.9	100.0	6.3
295	275	17	269	131	—	—	—	—	31.5	39.0	61.0	—	2.9
941	760	181	604	131	139	37	74	29	32.2	39.0	82.5	70.2	3.3
9 212	6 691	2 521	5 512	1 957	899	502	425	109	31.8	33.6	69.4	76.6	7.1
114	79	35	79	35	—	—	—	—	40.8	40.4	100.0	100.0	5.8
534	346	188	305	135	37	53	14	—	40.8	40.4	100.0	100.0	3.1
1 291	1 138	83	989	77	114	53	—	—	29.5	33.4	78.3	93.6	5.3
1 672	1 386	286	1 173	244	169	29	74	17	30.9	30.0	66.9	69.9	7.4
568	411	157	298	124	95	31	18	—	34.8	30.0	67.8	89.9	0.7
315	178	137	129	115	49	31	18	—	30.6	39.4	50.4	75.2	—
4 788	3 153	1 635	2 539	1 227	435	367	252	80	34.8	33.7	73.0	61.3	1.2
									31.0	34.2	71.5	73.6	4.4
													1.0

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Utilities and sanitary services									
	Race									
	Total		White		Black		Spanish origin ¹		Median age	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	1 372 626	1 141 396	981 646	194 458	121 724	28 319	51 898	10 501	38.6	33.8
Managerial and professional specialty occupations	205 166	180 146	168 827	21 695	5 601	2 355	4 065	763	40.5	33.6
Executive, administrative, and managerial occupations	112 435	95 691	90 926	14 586	3 038	1 542	2 032	529	44.4	35.0
Officials and administrators, public administration	15	2	2	13	—	—	—	—	40.0	45.7
Financial managers	3 381	2 859	2 793	480	47	35	53	12	40.8	36.2
Managers, marketing, advertising, and public relations	2 161	2 040	2 019	98	—	23	26	—	46.4	33.4
Administrators, education and related fields	181	163	147	18	—	—	—	—	39.6	25
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Managers, other specified managers	5 403	4 842	4 616	457	179	75	86	21	45.0	34.1
Managers and administrators, n.e.c.	63 086	56 769	54 503	5 809	1 289	353	1 076	219	46.5	41.6
Managers and administrators, n.e.c.	61 442	55 308	53 206	5 640	1 159	345	1 030	219	46.5	41.6
Self-employed	1 644	1 461	1 297	169	130	8	46	—	45.3	46.5
Management related occupations	38 208	29 016	26 845	7 711	1 507	1 056	791	277	39.3	32.5
Accountants and auditors	18 121	12 395	11 489	4 728	672	323	366	181	34.9	32.1
Personnel, training, and labor relations specialists	8 316	6 615	6 489	1 418	388	237	193	69	43.7	33.9
Buyers and purchasing agents	3 685	2 972	2 856	627	86	36	161	23	41.3	34.2
Inspectors and compliance officers	4 609	4 364	3 858	245	405	44	112	43	41.4	31.1
Other management related occupations	3 477	2 650	2 474	744	125	45	59	21	36.7	31.3
Professional specialty occupations	92 731	84 455	77 901	7 109	2 563	813	2 033	224	36.0	31.4
Engineers, architects, and surveyors	63 789	61 881	56 863	1 663	1 699	148	1 563	60	36.0	31.4
Architects	429	401	384	28	5	—	28	—	42.0	32.3
Engineers	62 592	60 750	55 801	1 604	1 676	141	1 510	60	35.9	32.3
Civil engineers	10 828	10 463	9 450	298	292	21	262	9	38.8	28.9
Electrical and electronic engineers	33 136	32 416	29 845	641	50	50	813	26	35.3	28.3
Industrial engineers	2 776	2 670	2 543	98	54	8	39.9	31.3	39.9	31.3
Mechanical engineers	4 694	4 563	4 263	124	74	—	38.8	27.1	35.1	28.1
Other engineers	11 158	10 638	9 700	443	225	62	307	25	38.1	33.5
Surveyors and mapping scientists	768	730	678	31	18	7	25	—	38.1	33.5
Computer systems analysts and scientists	3 451	2 778	2 570	612	125	28	37.3	13	34.0	30.4
Operations and systems researchers and analysts	2 252	1 718	1 629	438	52	50	46	12	37.3	32.1
Mathematical scientists	860	563	549	256	29	29	—	—	37.9	34.7
Natural scientists	7 630	6 541	5 986	952	308	83	141	—	33.4	29.8
Chemists, except biochemists	3 670	3 044	2 650	518	221	59	34.3	30.0	32.7	29.5
Other natural scientists	3 960	3 497	3 336	434	87	24	94	—	32.7	29.5
Health diagnosing occupations	154	134	99	88	10	14	—	—	55.8	31.5
Health assessment and treating occupations	445	107	338	50	—	—	—	—	32.6	45.0
Registered nurses	367	48	319	42	—	—	—	—	34.5	45.8
Other health assessment and treating occupations	78	59	59	19	—	—	—	—	31.7	31.8
Teachers, except postsecondary	1 979	970	901	837	69	137	42	6	38.9	33.0
Social scientists and urban planners	2 062	1 727	1 631	287	58	46	15	15	33.6	32.2
Social and recreation workers	9 240	8 160	7 466	469	8	31	7	—	40.9	30.9
Lawyers and judges	1 899	1 683	1 678	160	—	—	30	—	38.0	32.0
Writers, artists, entertainers, and athletes	7 458	5 921	5 488	1 365	212	113	137	106	39.6	32.4
Other professional specialty occupations	510	272	260	199	12	34	15	5	36.6	36.7
Technical, sales, and administrative support occupations	362 309	181 771	160 225	154 192	15 772	19 983	8 267	8 388	34.5	33.7
Technicians and related support occupations	34 723	46 809	42 504	6 884	2 762	721	1 485	308	34.1	29.9
Health technologists and technicians	1 606	1 375	1 016	553	357	21	26	9	39.5	30.6
Licensed practical nurses	43	21	14	7	—	—	—	—	41.0	47.6
Other health technologists and technicians	1 561	1 351	1 002	164	317	46	26	9	33.4	29.8
Engineering and science technicians	37 377	32 899	29 930	3 844	1 821	438	203	231	34.1	29.1
Electrical and electronic technicians	9 342	8 781	8 271	561	308	85	203	32	34.6	32.1
Industrial and mechanical engineering technicians	519	486	458	26	28	—	9	—	34.0	28.9
Drafting and surveying technicians	14 295	12 472	10 906	1 574	857	140	747	130	33.9	28.3
Other engineering and science technicians	13 221	11 160	10 295	2 133	628	213	338	69	33.9	29.0
Technicians, except health, engineering, and science	15 740	12 535	11 558	2 862	614	230	362	68	34.1	30.7
Airplane pilots and navigators	333	326	319	7	—	—	—	—	43.5	40.0
Air traffic controllers and broadcast equipment operators	987	799	764	170	25	—	11	7	43.1	35.0
Computer programmers	6 402	4 631	4 222	1 761	237	134	113	21	31.4	29.8
Other technicians, except health, engineering, and science	7 818	6 779	6 253	924	352	85	238	40	35.9	31.5

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																
Utilities and sanitary services																
Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
Total		White		Black												
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations																
Salaried																
Self-employed																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Stereographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adjusters and investigators																
Date-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Coaches																
Other protective service occupations																
Services occupations, except protective and household																
Food preparation and service occupation																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automobile mechanics, including body																
Industrial machinery repairers																
Electronic mechanics, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Electricians																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																
Other construction trades																

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																		
Utilities and sanitary services																		
	Total		White		Black		Spanish origin ¹		Median age		Percent completed 4 or more years of college		Percent self-employed					
	Both sexes		Male		Female		Male		Female		Male		Female		Male		Female	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																		
Precision production, craft, and repair occupations—Con.																		
Extraction occupations																		
Precision production occupations																		
Supervisors, production occupations																		
Precision metalworking occupations																		
Tool and die makers																		
Mechanics																		
Sheet metal workers																		
Other precision metal workers																		
Precision textile, apparel, and furnishings machine workers																		
Precision food production occupations																		
Precision inspectors, testers, and related workers																		
Plant and system operators																		
Other precision production occupations																		
Operators, fabricators, and laborers																		
Machine operators, assemblers, and inspectors																		
Machine operators and tenders, except precision																		
Metalworking and plastic working machine operators																		
Fabricating machine operators, n.e.c.																		
Metal and plastic processing and woodworking machine operators																		
Printing machine operators																		
Textile machine operators																		
Textile sewing machine operators																		
Laundry and dry cleaning machine operators																		
Food processing and food preparation machine operators																		
Farmer, fish, and fowl operators, except food																		
Other specified machine operators																		
Miscellaneous and not specified machine operators																		
Fabricators, assemblers, and hand working occupations																		
Welders and cutters																		
Solders and brazers																		
Assemblers																		
Hand working occupations																		
Production inspectors, testers, samplers, and weighers																		
Graders and sorters, except agricultural																		
Other production inspectors, testers, samplers, and weighers																		
Transportation and material moving occupations																		
Transportation occupations																		
Motor vehicle operators																		
Truck drivers																		
Driver-sales workers																		
Other motor vehicle operators																		
Rail and water transportation occupations																		
Material moving equipment operators																		
Supervisors, material moving equipment operators																		
Crane, hoist, and winch operators																		
Excavating, grading, and dozer machine operators																		
Other material moving equipment operators																		
Handlers, equipment cleaners, helpers, and laborers																		
Supervisors, handlers, equipment cleaners, and laborers																		
Helpers, craft and production																		
Construction laborers																		
Freight, stock, and material handlers																		
Garage and service station occupations, and equipment cleaners																		
Hand packers and packagers																		
Laborers, except construction																		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

[illegible]

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States															
Employed persons 16 years and over—Con.															
Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction.															
Wholesale trade, total															
Spanish origin ¹															
Median age															
Percent high school graduates															
Percent completed 4 or more years of college															
Percent self-employed															
Female															
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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Wholesale trade, total														
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		Black												
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Extraction occupations															
900	878	22	802	8	54	14	33.7	47.1	68.0	13.6	8.9	5.1	2.5	3.1	
192 226	165 440	26 786	143 194	20 986	13 803	3 495	39.1	36.1	69.2	43.9	8.9	5.1	2.5	3.1	
122 460	109 731	12 729	97 516	11 045	7 882	1 102	40.3	39.2	73.3	75.5	11.3	7.4	2.7	3.5	
19 304	17 895	1 409	15 962	1 014	1 019	211	34.7	33.8	68.7	68.4	2.9	2.0	6.1	8.3	
Precision production occupations															
9 642	9 278	364	8 042	20	784	5	42.3	33.2	72.3	63.3	2.9	2.0	2.0	2.2	
4 274	4 212	62	4 049	58	4	4	34.3	38.8	66.8	66.8	2.3	2.3	4.4	4.4	
4 322	3 369	953	2 921	745	127	62	33.6	29.0	74.2	61.3	2.6	2.6	9.7	9.7	
6 232	4 557	1 675	1 270	249	741	93	35.2	32.8	74.2	69.7	3.1	3.1	21.5	8.5	
30 130	24 955	5 175	18 694	3 524	3 834	1 185	37.4	41.9	47.1	46.8	3.5	3.5	9.7	3.7	
Precision production occupations															
1 135	816	319	4 340	127	51	20	32.3	36.6	82.0	76.8	7.0	0.9	1.5	1.5	
5 104	4 931	173	4 340	147	410	26	35.1	35.8	82.0	76.8	7.0	0.9	1.5	1.5	
7 861	5 437	2 424	4 690	2 004	358	210	32.9	31.9	69.6	63.2	5.0	1.7	5.0	1.4	
Operators, fabricators, and laborers															
950 360	814 381	135 979	668 486	101 240	104 191	21 605	32.1	35.6	59.8	50.2	2.7	1.9	2.4	1.0	
190 545	129 314	61 231	99 487	43 939	19 701	10 344	32.4	37.8	34.2	46.1	2.6	2.6	1.9	0.6	
107 151	78 995	28 256	59 848	19 748	13 115	5 852	32.9	36.7	53.3	47.6	2.6	1.8	1.9	0.9	
6 319	5 477	842	4 523	646	566	134	32.9	34.5	51.6	51.8	1.5	—	2.9	—	
460	379	81	273	75	40	6	33.8	33.8	59.6	69.1	1.3	—	9.0	—	
Machine operators and inspectors															
6 144	5 290	854	4 039	539	866	230	33.3	32.9	48.1	47.4	2.3	0.2	4.8	—	
3 807	2 556	1 251	2 188	369	246	112	30.8	32.5	75.8	74.7	5.6	3.5	2.0	0.4	
1 183	695	488	476	208	104	167	30.0	35.3	46.0	43.1	2.8	6.4	6.6	1.4	
2 699	552	2 147	343	1 318	117	517	34.3	42.3	39.1	38.6	3.6	1.1	4.0	2.7	
Textile machine operators															
225	107	118	57	62	44	50	25.7	42.7	39.3	18.6	—	—	7.5	—	
4 676	2 711	1 965	1 119	544	438	260	27.6	33.4	54.0	51.5	2.0	1.1	0.2	1.0	
2 133	1 953	180	1 470	92	418	66	38.4	46.1	52.6	54.4	1.4	3.3	0.9	—	
27 210	21 953	5 257	17 310	3 649	3 192	1 075	32.3	36.0	54.1	46.3	2.1	1.5	2.2	1.8	
52 295	37 312	14 983	27 060	10 408	7 084	3 235	33.1	36.7	52.4	46.5	2.9	1.9	1.2	0.4	
Miscellaneous and not specified machine operators															
48 201	35 345	12 856	28 340	9 519	4 312	1 980	31.6	35.5	56.4	52.8	2.1	2.3	2.1	0.8	
18 636	18 116	520	14 844	416	1 964	56	32.8	33.9	55.5	54.8	1.3	1.0	2.4	1.0	
417	160	257	127	208	20	40	26.8	32.4	48.1	46.7	5.0	—	3.8	2.7	
26 686	15 419	11 267	12 091	8 324	2 096	1 708	30.1	35.7	57.5	53.4	2.9	2.4	1.4	0.5	
2 462	1 650	812	1 278	571	232	176	30.8	35.8	57.4	44.8	3.3	3.1	5.1	3.7	
35 193	15 074	20 119	11 279	14 652	2 274	2 512	31.9	41.1	53.9	39.8	4.2	1.1	1.3	0.1	
24 318	8 404	15 914	6 001	11 411	1 247	1 828	29.8	41.2	40.7	36.9	2.9	0.9	1.7	0.1	
Fabricators, assemblers, and hand working occupations															
10 875	6 670	4 205	5 278	3 241	1 027	684	33.9	41.0	70.5	50.9	5.8	2.0	0.8	—	
Welders and cutters															
447 732	436 647	11 085	370 204	9 805	50 748	947	33.8	30.0	63.2	69.3	2.6	3.6	2.8	3.6	
387 463	378 529	8 934	325 553	8 076	40 908	644	34.0	29.2	64.2	69.9	2.6	3.9	3.2	4.4	
386 227	377 342	8 885	324 606	8 033	40 712	638	34.0	29.2	64.2	69.9	2.6	3.9	3.2	4.4	
309 789	303 366	6 423	255 965	5 721	37 042	548	33.6	28.4	61.3	68.0	2.1	3.0	2.7	3.9	
65 575	63 906	1 669	60 176	1 560	2 507	57	35.4	30.3	77.7	76.5	4.7	6.9	5.5	8.0	
Truck drivers															
10 863	10 070	793	8 465	752	1 163	33	36.7	30.8	65.6	71.4	4.4	4.4	1.0	1.0	
Other motor vehicle operators															
1 236	1 187	49	947	43	196	6	40.7	32.7	53.3	67.3	7.2	—	0.7	—	
Rail and water transportation occupations															
60 269	58 118	2 151	44 651	1 729	9 840	303	32.4	33.8	57.2	66.8	2.1	2.7	0.8	—	
Material moving equipment operators															
2 816	2 576	240	2 334	227	1 138	13	33.8	38.5	75.0	87.5	10.7	0.4	0.2	—	
8 078	7 966	112	6 016	90	1 584	22	36.0	27.4	45.6	75.0	1.2	—	0.6	—	
Supervisors, material moving equipment operators															
1 223	1 186	37	997	29	86	8	35.1	34.4	43.8	54.1	1.9	—	11.4	—	
Crane, hoist and winch operators															
48 152	46 390	1 762	35 304	1 383	7 973	260	31.8	32.8	58.5	63.7	1.8	3.3	0.6	—	
Other material moving equipment operators															
312 083	248 420	63 663	198 795	47 496	33 742	10 314	28.4	34.9	56.8	50.9	2.9	1.7	2.0	0.9	
Handriers, equipment cleaners, helpers, and laborers															
365	335	30	285	24	36	46	35.5	43.8	68.7	80.0	17.6	—	—	—	
6 129	5 609	520	4 281	434	819	46	25—	36.4	47.9	50.4	1.9	—	0.8	2.9	
1 825	1 717	108	1 389	83	179	12	36.4	36.4	51.4	51.4	3.3	—	—	—	
72 970	67 521	5 449	54 790	4 315	9 302	823	32.1	32.1	53.7	57.2	2.2	1.5	1.1	1.4	
Freight, stock, and material handlers															
7 693	7 115	578	5 433	493	1 314	61	26.3	31.8	49.7	50.3	1.4	2.1	1.4	1.9	
50 098	21 172	28 926	15 001	21 292	3 852	4 245	29.8	37.3	49.8	46.4	3.3	1.3	0.7	0.5	
173 003	144 951	28 052	117 616	20 855	18 210	5 127	29.8	33.5	59.9	54.2	3.3	2.2	2.8	1.2	
Garage and service station occupations, and equipment cleaners															
Laborers, except construction															

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Employed persons 16 years and over																		
Occupation	Total				Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Both sexes		Male		Female		White											
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
844 139	635 227	208 912	554 107	179 530	52 472	17 546	47 952	17 056	36.9	36.1	69.9	72.3	10.7	5.9	5.3	1.9		
123 810	105 789	18 021	100 898	16 910	2 015	427	3 267	865	41.8	36.3	85.9	88.8	28.4	19.9	8.6	4.0		
117 889	101 305	16 584	96 666	15 607	1 910	388	3 084	771	42.0	36.9	85.7	88.6	27.6	18.0	8.8	4.3		
3 450	2 705	745	2 553	715	73	7	111	47	37.6	37.6	96.8	97.3	56.1	19.1	0.5	—		
17 932	17 133	799	16 581	755	223	13	342	46	41.0	31.8	91.2	92.4	30.4	29.4	2.2	1.8		
43	31	12	31	12	—	—	—	—	43.5	25.0	100.0	100.0	41.9	50.0	—	—		
2 433	1 977	456	1 793	421	93	7	111	39	39.9	37.2	84.3	83.3	35.6	28.3	3.3	1.3		
59 366	51 223	8 143	48 845	7 700	818	166	1 698	346	43.1	40.9	86.0	86.4	26.2	13.3	6.2	5.3		
55 512	47 972	7 540	45 762	7 170	799	136	1 483	314	42.9	40.6	86.5	87.2	26.4	13.4	6.2	5.3		
3 854	3 251	603	3 083	530	19	30	215	32	46.4	45.6	79.1	75.3	23.8	12.3	97.7	72.0		
34 662	28 233	6 429	26 860	6 004	703	195	822	292	41.5	33.4	80.6	90.2	25.1	21.6	18.7	4.0		
6 854	3 880	2 974	3 667	2 725	68	79	176	115	34.8	32.6	98.6	94.4	40.3	23.8	2.7	0.7		
1 749	1 330	419	1 208	390	67	13	197	60	38.2	33.9	80.4	83.7	21.1	23.8	2.7	0.7		
24 955	22 171	2 784	21 154	2 637	560	103	549	104	42.9	34.2	77.1	86.6	18.4	15.5	23.0	8.3		
120	103	17	103	17	—	—	—	—	44.0	33.8	85.4	84.7	—	—	—	—		
984	749	235	728	235	8	—	—	10	40.9	34.2	91.2	90.6	51.7	34.9	8.7	2.6		
5 921	4 484	1 437	4 232	1 303	105	39	183	94	37.6	31.7	91.8	91.4	46.3	42.4	3.3	—		
1 258	1 165	93	1 124	85	22	—	41	8	42.4	31.3	91.4	92.5	37.7	47.3	1.9	—		
38	38	—	38	—	—	—	—	—	42.5	—	100.0	—	76.3	—	—	—		
1 220	1 127	93	1 086	85	22	—	41	8	42.5	31.3	91.1	92.5	38.5	47.3	2.0	—		
101	101	—	92	—	6	—	—	—	38.5	—	86.1	—	23.8	—	5.9	—		
94	94	—	81	—	7	—	4	—	40.5	—	90.4	—	24.0	—	—	—		
328	270	58	270	50	6	—	—	8	43.2	33.4	87.9	87.9	46.3	27.6	—	—		
277	277	—	271	—	6	—	—	—	47.1	—	83.9	—	20.2	—	—	—		
420	385	35	372	35	3	—	34	—	40.6	25.6	96.1	100.0	51.2	80.0	4.2	—		
611	529	82	496	82	8	—	14	—	32.7	31.4	98.7	100.0	38.4	47.6	—	—		
198	169	29	162	29	—	—	—	—	37.9	49.7	100.0	100.0	49.7	51.7	4.1	—		
127	72	55	66	49	—	—	10	—	29.7	32.3	100.0	100.0	56.9	65.5	—	—		
554	427	127	385	83	23	5	4	7	36.3	29.3	97.2	97.2	67.9	55.1	3.3	—		
256	189	67	162	35	11	—	—	—	44.4	31.9	94.7	70.1	70.9	50.7	—	—		
298	238	60	223	48	12	5	4	7	32.4	26.5	99.2	83.3	65.5	60.0	5.9	—		
33	33	—	33	—	—	—	—	—	28.8	—	69.7	—	60.6	—	18.2	—		
128	44	84	40	75	4	9	—	5	38.7	37.7	84.1	96.4	44.0	44.0	15.9	—		
39	13	26	13	26	4	—	—	—	44.3	41.7	46.2	100.0	46.2	7.7	53.8	—		
89	31	58	27	49	4	9	—	5	35.4	36.3	100.0	94.8	35.5	60.3	—	—		
117	61	56	61	45	—	6	39	5	42.7	38.5	68.9	91.1	18.0	82.1	—	—		
770	584	186	578	178	—	4	—	—	36.9	29.3	93.5	93.5	59.8	57.0	2.2	—		
65	65	—	55	—	10	—	5	—	31.9	30.8	100.0	—	26.2	—	—	—		
265	222	44	222	44	—	—	—	—	40.7	30.8	100.0	100.0	100.0	100.0	3.2	—		
1 692	1 038	654	935	618	38	15	80	59	37.1	31.3	84.4	90.8	31.3	25.1	6.1	—		
102	75	27	75	27	—	—	—	—	43.8	31.3	81.3	100.0	46.7	33.3	14.7	—		
291 074	166 551	124 523	153 762	115 831	7 403	4 611	8 772	5 359	39.8	34.9	80.1	84.8	15.5	6.4	9.4	2.0		
4 018	2 686	1 332	2 405	1 189	167	83	138	76	32.9	30.2	90.9	85.3	24.4	23.7	1.2	0.5		
96	52	44	43	12	9	—	—	—	29.5	33.0	86.5	88.6	23.1	13.6	—	—		
34	22	12	22	12	—	—	—	—	25	25	77.3	100.0	—	—	—	—		
62	30	32	21	32	9	—	—	—	35.0	35.0	93.3	84.4	40.0	18.8	—	—		
1 645	1 039	606	951	544	55	45	59	51	34.5	32.1	85.1	76.9	17.0	20.1	1.3	—		
138	118	20	104	20	7	—	9	—	33.5	32.1	88.1	100.0	4.2	30.0	—	—		
18	18	—	5	—	—	—	7	—	43.6	—	50.0	—	—	—	—	—		
220	178	42	157	42	21	—	6	—	32.9	25	94.4	100.0	7.3	14.3	1.1	—		
1 269	725	544	685	482	27	45	37	45	34.9	32.6	83.2	74.3	21.9	20.2	1.7	—		
2 277	1 595	682	1 411	601	103	38	79	25	32.1	29.2	94.8	92.5	29.3	27.6	1.2	1.0		
148	148	—	125	—	23	—	6	—	40.0	—	73.6	—	24.3	—	—	—		
16	16	—	16	—	—	—	—	—	40.0	—	100.0	—	28.0	—	0.4	—		
1 638	1 116	522	982	466	74	19	54	12	31.2	28.6	97.9	94.1	37.0	26.1	4.4	1.3		
475	315	160	288	135	6	—	19	13	33.4	33.5	93.3	87.5	28.0	32.5	0.4	—		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Groceries and farm products									
	Total		White		Black		Spanish origin ¹		Median age	
	Both sexes	Male	Female	Male	Female	Male	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	149 644	124 450	25 194	118 341	23 045	2 987	1 209	33.1	41.2	73.7
Service occupations	23 629	21 480	2 149	20 370	2 112	415	954	42.0	43.4	80.8
Supervisors, proprietors, sales occupations	16 945	15 505	1 440	14 726	1 358	329	674	38.8	42.2	83.4
Self-employed	6 684	5 975	709	5 264	634	86	280	47.9	46.7	77.7
Sales representatives, finance and business services	325	237	88	241	93	2	—	31.5	36.7	94.3
Sales representatives, commodities, except retail	113 570	99 254	14 314	94 813	13 481	2 241	3 801	33.8	40.9	82.9
Sales workers, retail and personal services	10 823	2 644	8 179	2 157	6 022	284	338	31.6	38.7	65.9
Cashiers	9 391	1 769	7 622	1 326	6 295	271	299	28.4	26.5	64.4
Other sales occupations, retail and personal services	1 432	875	557	831	224	23	57	32.3	37.7	73.8
Sales related occupations	1 297	833	464	776	446	37	12	49.1	45.6	63.8
Administrative support occupations, including clerical	137 412	39 415	97 997	33 016	91 597	4 249	3 507	35.6	34.7	72.5
Supervisors, administrative support occupations	8 176	5 298	2 878	4 723	2 720	281	415	38.8	39.0	87.6
Computer equipment operators	4 909	1 663	3 246	1 487	2 932	94	113	29.3	30.0	70.9
Secretaries, stenographers, and typists	26 325	3802	22 523	296	26 809	18	8	33.6	37.8	94.6
Stenographers and typists	1 960	85	1 875	59	1 708	18	8	33.6	43.9	91.6
Receptionists	1 628	26	1 602	152	1 529	—	—	34.0	27.8	90.8
Other information clerks	1 837	152	1 685	152	1 529	—	—	31.2	41.7	88.4
File clerks	1 012	165	847	152	751	6	7	34.9	30.4	87.8
Other records processing occupations, except financial	6 737	3 017	3 720	2 389	3 343	6	21	31.7	28.9	83.6
Bookkeepers, accounting, and auditing clerks	32 713	3 477	29 236	3 201	27 971	92	320	32.8	39.6	71.2
Payroll and timekeeping clerks	1 346	124	1 222	98	1 164	25	17	38.8	40.2	89.6
Other financial records processing occupations	3 108	546	2 562	504	2 332	26	43	38.4	38.7	70.6
Takenhome operators	807	65	742	58	687	31	17	39.4	31.8	90.1
Mailroom operators	1 466	105	1 361	786	423	145	115	29.8	31.0	72.3
Production coordinators and expeditors	2 319	1 141	1 178	6 205	1 054	99	70	34.3	33.5	71.8
Traffic, shipping, and receiving clerks	9 155	8 077	1 078	6 205	1 054	99	70	34.3	33.5	71.8
Stock and inventory clerks	5 017	6 096	1 918	4 902	1 715	876	863	34.3	34.3	42.2
Other material recording, scheduling, and distributing clerks	8 604	4 071	1 536	3 444	1 246	229	475	37.8	38.6	61.0
Adjusters and investigators	1 252	609	643	534	554	60	12	33.7	40.2	84.9
Date-entry keyers	3 977	198	3 779	183	3 997	379	24	30.7	29.9	81.0
Other administrative support occupations	16 042	3 288	12 754	2 876	11 678	280	221	38.3	40.5	74.7
Service occupations	22 722	16 326	6 396	12 512	4 501	2 731	1 859	38.7	38.0	46.6
Private household occupations	1 947	1 884	63	1 600	37	203	—	—	—	—
Protective service occupations	1 837	1 774	63	1 496	37	197	173	33.5	54.5	82.5
Guards	110	110	—	104	—	6	—	52.4	—	—
Other protective service occupations	20 775	14 442	6 333	10 912	4 464	2 528	1 686	38.8	35.6	43.2
Service occupations, except protective and household	7 204	3 099	4 105	2 214	3 066	560	420	38.0	31.8	46.2
Food preparation and service occupation	91	52	39	39	30	13	11	41.1	40.0	59.1
Health service occupations	13 005	10 984	2 021	8 375	1 226	1 939	1 223	40.9	37.1	44.2
Cleaning and building service occupations, except household	475	307	168	284	142	16	32	35.7	40.7	61.9
Personal service occupations	2 293	2 037	256	1 854	179	122	151	30.3	29.7	40.2
Farming, forestry, and fishing occupations	80 533	72 261	8 272	60 422	6 110	7 295	7 888	38.4	39.1	61.5
Precision production, craft, and repair occupations	16 082	15 885	197	14 215	1 644	33	1 266	40.0	41.8	52.8
Mechanics and repairers	724	708	16	626	13	46	69	48.8	47.8	71.8
Supervisors, mechanics and repairers	3 669	3 661	8	3 286	8	248	293	58.2	55.2	62.5
Automobile mechanics, including body	3 486	3 434	52	3 106	30	181	265	50.0	40.3	61.8
Industrial machinery repairers	79	79	—	48	—	23	8	—	—	—
Electronic repairers, communications and industrial equipment	842	842	—	791	—	53	53	—	—	—
Heating, air conditioning, and refrigeration mechanics	7 282	7 161	121	6 358	113	490	578	34.4	37.3	62.3
Other mechanics and repairers	2 364	2 270	94	1 977	91	201	161	28.9	38.9	61.9
Construction trades	723	691	32	592	29	2	—	50.0	40.6	58.9
Supervisors, construction occupations	762	752	10	675	10	58	28	26.5	42.5	78.1
Carpenters	281	261	20	216	20	40	17	25.0	39.5	50.0
Electricians	246	234	12	207	12	14	16	34.2	38.8	75.0
Painters, construction and maintenance	126	118	8	77	8	25	30	40.0	48.3	66.6
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—
Other construction trades	—	—	—	—	—	—	—	—	—	—
Persons of Spanish origin may be of any race.										

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States															
	Groceries and farm products															
	Race				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
	Total		White		Black		Spanish origin ¹		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations																
55	38	17	32	6	1 492	14	44.1	48.9	52.6	17.6	13.2	2.0	26.3	—	—	—
62 032	54 068	7 964	44 108	6 096	2 244	6 461	39.5	38.4	61.4	54.0	6.2	3.7	2.6	2.0	2.6	2.0
30 833	28 068	2 765	24 598	2 311	325	2 177	40.9	41.8	70.0	63.3	9.7	6.3	1.9	6.3	1.9	2.6
Precision production occupations																
878	878	95	60	57	17	234	37.8	35.2	56.0	58.9	1.0	—	—	—	—	—
Precision metalworking occupations																
63	63	35	35	28	17	18	42.3	41.1	55.1	43.5	0.7	—	—	—	—	—
750	681	69	611	29	6	104	45.4	45.4	72.3	100.0	6.2	—	—	—	—	—
Mechanists																
65	65	45	45	—	—	—	—	—	—	—	—	—	—	—	—	—
95	69	26	69	—	11	13	29.0	25	66.7	66.7	—	23.1	—	—	—	—
Other precision metal workers																
29 187	19 184	83	140	41	7	64	36.7	34.2	50.6	50.6	—	—	6.7	—	—	—
Precision food production occupations																
277	24	4 993	18 118	3 397	1 135	612	37.5	36.6	51.7	48.8	2.4	1.0	3.5	—	—	—
Precision inspectors, testers, and related workers																
24	24	24	24	8	135	16	37.0	37.0	100.0	100.0	8.3	—	—	—	—	—
597	584	13	521	5	8	43.2	43.2	25	62.7	100.0	8.0	—	1.2	—	—	—
141	126	15	107	13	—	54	47.5	30.0	57.9	—	—	—	4.0	—	—	—
Other precision production occupations																
323 707	272 263	51 444	224 659	35 999	9 523	26 015	32.9	38.2	61.3	42.7	2.8	1.1	2.4	0.9	—	—
51 386	23 879	20 177	16 574	4 625	4 002	4 814	32.4	39.9	49.9	39.3	2.7	0.8	1.0	0.4	—	—
23 649	15 974	7 675	11 786	2 882	1 855	2 459	34.2	37.8	49.9	43.9	2.4	1.1	0.8	0.6	—	—
505	442	63	37	97	—	50	30.9	35.4	50.7	25.4	1.4	—	0.5	—	—	—
Machine operators, assemblers, and inspectors																
269	167	102	123	43	47	—	30.1	31.3	53.3	54.9	4.2	—	—	—	—	—
591	380	211	362	175	10	6	29.0	36.7	80.3	65.4	3.4	—	2.4	—	—	—
229	151	78	118	48	30	8	26.9	40.8	49.0	39.7	1.3	—	1.3	—	—	—
110	57	53	40	31	6	3	45.4	44.8	49.1	15.1	—	—	—	—	—	—
Textile sewing machine operators																
37	6	31	6	21	10	10	25	40.6	33.3	46.5	—	—	—	—	—	—
2 325	1 333	992	1 043	181	141	185	35.1	41.8	55.0	27.8	2.0	1.4	0.5	0.8	—	—
337	319	18	231	80	38	22	41.3	48.1	61.1	27.8	61.1	0.7	1.4	1.5	—	—
5 790	4 151	1 639	3 315	1 079	368	410	34.4	34.5	50.2	42.4	3.6	1.1	0.5	0.4	—	—
13 456	8 968	4 488	6 221	2 920	1 834	1 763	34.3	37.8	47.3	43.6	1.9	—	—	—	—	—
Miscellaneous and not specified machine operators																
4 657	2 901	1 756	2 216	431	488	379	31.3	36.5	51.9	44.9	2.4	0.3	2.3	1.1	—	—
988	974	14	794	88	14	114	32.2	47.2	51.3	2.6	—	—	3.1	—	—	—
Fabricators, assemblers, and hand working occupations																
2 694	1 346	1 348	974	287	336	192	31.1	35.0	52.2	47.7	2.0	0.4	—	—	—	—
975	581	394	448	204	56	73	30.1	38.9	52.3	37.1	3.3	—	2.2	0.5	—	—
23 080	8 632	14 448	6 175	1 312	1 659	1 976	29.7	41.5	49.1	36.2	3.3	0.6	0.8	0.1	—	—
19 329	5 828	13 501	3 970	845	1 366	1 684	28.2	41.6	37.3	35.1	2.4	0.6	1.2	0.1	—	—
Graders and sorters, except agricultural																
3 751	2 804	947	2 205	606	293	292	31.7	40.5	73.7	51.0	5.1	1.4	—	—	—	—
Other production inspectors, testers, samplers, and weighers																
Transportation and material moving occupations																
166 511	163 520	2 991	140 735	2 665	251	11 676	34.8	31.4	66.4	65.9	2.8	5.1	3.6	6.7	—	—
148 290	145 733	2 557	127 105	2 318	181	9 442	34.9	31.2	67.5	67.1	2.9	5.2	4.0	7.8	—	—
148 111	145 569	2 542	126 961	2 303	181	9 437	34.9	31.2	67.5	67.3	2.9	5.2	4.0	7.9	—	—
99 489	97 807	1 682	82 071	1 497	152	7 677	34.2	32.6	62.6	62.1	2.2	4.0	3.3	7.6	—	—
44 393	43 609	784	41 268	606	27	1 451	36.6	29.8	78.1	78.7	4.3	7.3	6.0	9.2	—	—
4 229	4 153	76	3 682	74	322	2 309	37.9	30.2	70.1	64.5	3.9	9.2	0.3	—	—	—
179	164	15	144	20	144	5	40.0	47.5	57.5	33.3	5.5	7.3	0.1	—	—	—
18 221	17 787	434	13 630	347	2 904	70	33.5	32.3	57.5	59.0	2.0	4.8	0.1	—	—	—
344	342	2	320	7	—	30	32.9	30.0	83.3	100.0	14.9	—	—	—	—	—
190	189	1	154	1	—	32	36.8	50.0	43.9	100.0	3.7	—	—	—	—	—
83	81	2	55	2	—	13	32.2	32.4	35.8	37	—	—	—	—	—	—
17 604	17 175	429	13 101	342	2 849	70	33.5	32.4	57.3	59.0	1.7	4.9	0.1	—	—	—
Other material moving equipment operators																
105 810	81 236	24 574	63 747	16 760	12 005	9 525	28.7	37.7	55.0	43.3	2.8	1.0	0.6	0.7	—	—
Supervisors, handlers, equipment cleaners, and laborers																
125	125	—	97	21	—	7	40.5	—	48.8	—	12.0	—	—	—	—	—
1 164	920	244	537	206	25	132	30.5	41.9	45.0	38.9	—	—	—	2.5	—	—
270	262	8	221	25	6	60	35.0	41.7	39.3	75.0	2.3	—	—	—	—	—
32 766	30 732	2 034	24 882	1 603	296	3 191	25.4	33.5	53.6	56.5	2.2	1.8	0.5	1.3	—	—
Freight, stock, and material handlers																
1 743	1 569	174	1 304	144	21	134	28.6	34.7	51.9	44.8	3.3	2.9	0.3	0.6	—	—
22 919	8 142	14 777	5 349	1 885	2 343	2 896	28.5	38.1	42.4	42.6	3.3	2.9	0.3	0.6	—	—
46 823	39 486	7 337	31 357	4 155	2 579	4 374	30.6	37.7	59.2	41.0	2.4	1.9	0.7	0.7	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Racial totals, total												Percent self-employed			
	Race						Spanish origin ¹		Median age		Percent high school graduates				Percent completed 4 or more years of college	
	Total		White		Black								Male	Female		
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	15 716 694	7 712 295	8 004 399	6 808 982	7 123 064	514 968	520 641	487 222	359 035	31.4	67.7	68.6	11.3	5.7	9.9	5.2
Managerial and professional specialty occupations	1 951 858	1 225 081	726 777	1 131 476	669 594	45 437	31 485	48 147	24 746	36.4	87.7	83.9	30.0	17.2	14.1	12.9
Executive, administrative, and managerial occupations	1 633 757	1 035 087	577 870	974 410	529 834	39 396	26 995	42 506	20 255	36.2	86.8	83.0	24.9	14.4	13.9	12.7
Offices and administrators, public administration	98	66	30	18 128	18	7	380	582	346	37.0	92.1	92.1	27.9	14.0	0.6	0.7
Financial managers	31 490	18 987	12 503	125 473	51 356	3 205	2 327	3 688	1 543	37.1	91.3	88.2	48.8	18.1	6.0	8.6
Managers, marketing, advertising, and public relations	186 506	131 334	55 172	125 473	51 356	3 205	2 327	3 688	1 543	37.1	91.3	88.2	48.8	18.1	6.0	8.6
Administrators, education and related fields	823	565	258	532	227	25	24	21	8	43.5	87.6	85.7	35.0	26.4	14.7	12.8
Managers, medicine and health	59 228	36 174	23 054	33 005	21 225	1 709	1 089	2 112	914	34.8	88.1	85.7	32.2	19.2	7.6	5.2
Other specified managers	1 155 130	773 461	381 669	708 553	349 291	30 579	17 399	32 727	13 940	36.2	85.1	79.6	21.8	10.9	16.8	16.9
Managers and administrators, n.e.c.	946 593	639 325	307 068	588 307	282 138	26 056	14 926	26 347	10 638	34.3	87.3	81.3	23.0	11.0	—	—
Self-employed	208 537	133 936	74 601	120 246	67 153	4 523	2 473	6 380	3 302	45.5	74.9	72.9	16.0	10.3	97.3	86.6
Management related occupations	200 482	95 298	105 184	88 658	95 895	3 505	5 771	3 376	3 494	34.9	91.6	90.5	40.3	24.5	5.9	3.1
Accountants and auditors	50 603	23 933	26 670	21 668	23 549	932	1 757	995	1 650	34.3	97.5	94.0	39.7	21.1	2.7	1.9
Personnel, training, and labor relations specialists	27 113	13 932	15 181	12 598	13 531	834	1 029	648	1 555	33.3	86.5	85.6	35.4	17.2	2.7	2.7
Buyers and purchasing agents	111 931	52 400	59 535	47 577	55 488	1 497	2 696	1 532	1 538	36.0	90.5	90.2	47.7	28.1	7.7	7.4
Inspectors and compliance officers	97 111	47 971	49 140	47 577	55 688	35	55	77	27	35.4	74.8	67.6	13.3	11.7	6.0	0.4
Other management related occupations	7 862	4 531	3 331	4 229	3 001	207	234	124	124	36.5	90.5	92.1	43.6	21.6	8.8	8.2
Professional specialty occupations	318 101	169 194	148 907	157 066	139 760	6 041	4 490	5 641	4 491	37.6	93.4	87.4	61.5	28.2	15.7	13.7
Engineers, architects, and surveyors	8 250	7 426	824	6 971	757	239	193	29	29	36.2	94.1	87.5	41.9	35.2	2.8	2.7
Architects	1 552	1 298	254	1 201	231	57	7	60	26	37.4	95.2	90.9	41.2	38.2	6.0	3.1
Engineers	6 698	6 091	567	5 770	526	182	18	133	3	35.9	94.0	85.9	41.7	33.3	2.1	2.5
Civil engineers	736	696	40	660	40	36	3	3	—	32.5	89.4	75.0	47.1	—	1.4	—
Electrical and electronic engineers	971	918	53	845	46	23	7	—	—	32.6	95.9	100.0	49.1	64.2	4.1	—
Mechanical engineers	1 329	1 053	276	983	245	28	11	15	3	39.3	96.0	77.9	47.7	33.7	0.6	—
Industrial engineers	925	914	11	855	11	49	8	8	—	41.9	86.5	100.0	24.0	—	3.8	—
Other engineers	2 697	2 510	187	2 390	181	46	—	78	—	34.9	96.5	95.2	41.3	33.2	1.6	7.5
Surveyors and mapping scientists	40	37	3	37	3	—	—	—	—	36.7	78.4	100.0	5.4	100.0	—	—
Computer systems analysts and scientists	5 336	3 924	1 412	3 554	253	253	102	132	13	33.6	99.7	98.5	53.6	52.5	0.7	1.4
Operations and systems researchers and analysts	1 893	1 409	484	1 326	427	26	12	15	—	34.6	97.1	97.1	50.6	32.9	—	—
Mathematical scientists	703	1 180	523	1 157	436	12	53	52	—	36.1	96.1	90.4	67.8	24.3	2.2	—
Natural scientists	2 458	1 459	999	1 321	73	55	73	58	11	33.8	92.3	84.2	58.5	31.0	6.4	8.3
Chemists, except biochemists	1 960	1 145	815	1 076	151	22	22	—	—	35.3	96.8	84.2	66.9	45.7	1.9	9.8
Other natural scientists	3 730	3 124	606	2 935	527	72	33	58	11	33.4	91.1	84.2	56.2	27.7	9.0	17.3
Health diagnosing occupations	106 731	85 109	21 622	80 344	19 596	1 857	837	1 491	935	47.6	97.4	95.4	87.0	39.6	33.8	33.8
Health assessment and training occupations	1 615	1 478	1 377	1 454	1 067	4	45	—	—	41.5	99.1	96.5	90.1	72.1	15.3	4.4
Registered nurses	105 116	84 631	20 485	79 890	18 529	1 853	792	1 491	914	34.6	98.3	97.4	86.4	35.0	10.0	4.7
Other health assessment and training occupations	14 374	4 022	10 352	3 733	9 661	168	199	147	150	28.8	87.1	88.0	26.2	24.1	18.3	29.6
Teachers, except postsecondary	3 788	2 266	1 522	2 167	1 359	58	121	61	34	36.1	97.9	96.1	64.9	45.7	3.0	2.1
Social scientists and urban planners	986	332	654	1 368	574	16	45	37	6	31.3	80.4	95.8	30.4	38.7	7.2	6.0
Social and recreation workers	1 787	1 416	371	1 368	342	27	29	39	—	38.6	98.8	100.0	90.8	80.9	4.8	5.7
Lawyers and judges	165 273	56 929	108 344	51 414	102 570	3 179	2 922	3 417	3 118	33.4	98.2	98.2	22.6	18.8	18.9	14.7
Writers, artists, entertainers, and athletes	2 792	1 598	1 194	1 474	1 092	59	44	23	54	40.6	88.4	87.0	41.1	35.2	30.9	9.3
Other professional specialty occupations	7 351 446	2 688 560	4 662 886	2 446 078	4 224 627	141 899	283 307	138 373	207 702	33.6	77.4	73.3	13.6	5.4	15.5	5.6
Technical sales, and administrative support occupations	38 242	24 180	14 062	21 662	12 778	219	759	1 052	501	31.7	89.1	89.5	20.8	16.2	3.6	1.9
Technicians and related support occupations	2 374	743	1 631	660	1 221	50	112	21	78	33.9	81.6	81.5	32.6	7.1	11.8	2.6
Health technologists and technicians	3 321	32	289	32	221	—	—	—	—	34.4	71.9	62.6	56.3	5.2	6.3	—
Licensed practical nurses	2 053	711	1 342	628	1 233	50	64	21	13	33.9	82.0	85.5	31.5	7.5	12.1	3.1
Other health technologists and technicians	11 706	9 363	2 343	8 445	1 942	516	283	529	87	32.4	86.7	84.2	11.2	15.8	3.7	3.3
Engineering and science technicians	5 206	4 697	509	4 263	402	230	194	188	34	32.6	94.4	94.4	9.8	9.6	4.1	—
Electrical and electronic technicians	469	424	45	389	32	13	13	18	49	28.6	89.4	88.4	7.7	7.6	0.7	—
Industrial and mechanical engineering technicians	3 225	2 407	818	2 422	747	145	133	153	39	31.2	87.2	92.1	14.3	21.6	2.9	4.8
Drafting and surveying technicians	2 806	1 835	971	1 631	768	101	153	98	14	34.6	79.0	77.7	16.0	14.8	2.9	3.4
Other engineering and science technicians	24 162	14 074	10 088	12 813	9 382	653	364	502	336	31.2	91.2	91.6	26.6	17.8	3.1	1.5
Technicians, except health, engineering, and science	716	692	24	685	24	7	—	—	—	36.9	96.5	45.8	30.2	25.0	1.0	—
Airplane pilots and navigators	571	453	118	6 033	1 111	24	—	—	—	30.2	72.9	30.2	11.3	5.1	6.4	5.9
Air traffic controllers and broadcast equipment operators	10 052	6 678	3 374	6 033	2 287	287	238	181	125	25.9	83.2	68.8	36.9	36.9	1.0	—
Computer programmers	12 823	6 251	6 572	5 666	6 293	335	126	286	204	32.6	84.4	89.4	15.5	8.2	5.4	1.5
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Retail trade, total									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male				
Employed persons 16 years and over—Con.										
Technical, sales, and administrative support occupations—Con.										
Sales occupations	5 779 029	2 330 896	3 448 133	2 141 828	3 113 343	105 903	214 922	158 454	31.5	69.6
Supervisors and proprietors, sales occupations	1 242 920	857 237	385 683	799 060	359 007	29 136	14 906	13 216	38.8	80.1
Salaried	859 138	589 824	269 314	550 369	250 827	8 163	11 497	9 306	35.0	81.8
Self-employed	383 782	267 413	116 369	248 691	108 180	8 135	3 409	3 910	46.6	86.1
Sales representatives, finance and business services	7 795	3 719	4 076	3 526	3 764	1	200	182	37.0	76.2
Sales representatives, commodities, except retail	1 512	1 408	1 042	1 375	1 92	14	12	19	31.9	88.8
Sales workers, retail and personal services	4 516 081	1 465 649	3 050 432	1 335 158	2 743 055	76 471	199 569	144 913	40.7	77.9
Cashiers	1 449 531	233 145	1 216 385	1 395 869	1 056 218	20 879	107 731	67 543	31.6	68.2
Other sales occupations, retail and personal services	3 066 550	1 232 503	1 834 047	1 139 289	1 686 837	55 592	91 838	37 370	25—	63.3
Sales related occupations	10 721	2 883	7 838	2 709	7 425	147	235	82	33.3	71.4
Administrative support occupations, including clerical	1 534 175	333 484	1 200 691	282 332	1 098 506	34 777	67 626	48 747	35.1	83.7
Supervisors, administrative support occupations	84 715	33 024	51 691	29 128	47 564	2 843	2 843	2 009	37.9	85.6
Computer equipment operators	26 140	8 514	17 626	7 100	15 526	993	1 443	536	33.8	87.5
Secretaries, stenographers, and typists	225 942	4 043	221 899	3 534	207 133	297	9 075	286	30.0	88.7
Secretaries	198 577	3 113	195 464	2 745	184 581	195	6 344	179	32.7	82.5
Stenographers and typists	27 365	930	26 435	789	22 552	102	2 731	699	32.8	90.0
Receptionists	25 455	748	24 692	496	22 598	37	1 173	164	30.9	84.9
Other information clerks	22 312	2 365	19 947	2 010	17 734	198	1 528	167	28.7	81.1
File clerks	12 962	1 115	11 847	906	9 798	145	1 545	83	34.0	67.5
Other records processing occupations, except financial	83 641	22 450	61 191	18 911	53 986	2 272	5 508	2 155	27.2	65.0
Bookkeepers, accounting, and auditing clerks	392 232	24 644	367 588	22 391	350 502	1 018	8 485	1 285	28.0	77.4
Payroll and timekeeping clerks	13 707	682	13 025	583	11 950	28	658	10 292	38.6	88.5
Other financial records processing occupations	30 067	4 963	25 104	4 280	22 170	269	1 978	445	32.4	86.5
Telephone operators	17 085	419	16 666	352	15 051	1 255	1 255	62	35.0	76.6
Mail and message distributing occupations	22 140	12 196	9 944	9 638	8 319	1 739	1 270	968	25—	75.0
Production coordinators and expeditors	44 888	13 491	31 397	11 848	27 498	1 025	3 093	4 320	33.2	60.4
Traffic, shipping, and receiving clerks	77 472	50 028	27 444	40 470	23 109	6 974	3 292	4 320	33.2	69.6
Stock and inventory clerks	139 146	94 007	45 139	77 067	39 366	12 212	4 108	6 396	31.6	73.3
Other material recording, scheduling, and distributing clerks	31 008	10 175	20 833	8 914	17 304	956	2 591	572	40.4	62.7
Advisors and investigators	37 423	10 174	27 249	8 938	23 420	804	3 028	601	32.4	66.8
Data-entry keyers	28 731	2 115	26 616	1 804	21 404	155	1 656	155	30.5	86.9
Other administrative support occupations	219 109	38 306	180 803	33 742	164 241	2 838	10 974	2 223	27.7	78.9
Service occupations	3 466 750	1 354 174	2 112 576	1 074 174	1 851 970	144 071	163 773	96 456	25—	54.6
Private household occupations	44 978	29 207	15 771	22 951	13 076	4 887	2 163	1 764	31.6	72.7
Protective service occupations	42 411	27 161	15 250	21 159	12 626	4 686	2 097	1 633	31.7	72.3
Guards	2 567	2 046	521	1 792	450	201	66	111	30.7	87.1
Other protective service occupations	3 421 772	1 324 967	2 096 805	1 051 223	1 838 894	139 184	161 610	141 011	25—	54.8
Food preparation and service occupations	3 177 197	1 164 115	2 013 082	930 522	1 773 183	109 877	148 032	125 151	25.5	46.2
Health service occupations	18 681	3 236	15 445	2 788	14 157	247	803	159	28.4	74.1
Cleaning and building service occupations, except household	192 484	150 962	41 522	112 305	28 302	28 443	10 648	15 189	41.6	40.8
Personal service occupations	33 410	6 654	26 756	5 608	23 252	26 617	2 127	512	30.1	67.1
Farming, forestry, and fishing occupations	14 641	8 955	5 686	7 374	5 189	901	193	889	29.3	68.8
Precision production, craft, and repair occupations	266 536	1 101 324	165 212	1 002 903	144 086	55 545	12 725	65 445	39.1	68.4
Mechanics and repairers	619 544	608 974	10 570	559 633	9 161	28 700	1 161	29 389	30.3	68.5
Supervisors, mechanics and repairers	40 027	38 726	1 299	37 731	1 190	28 700	84	29 776	34.3	74.1
Automobile mechanics, including body	395 735	392 047	3 688	356 418	3 107	20 824	457	20 545	27.3	69.7
Industrial machinery repairers	12 456	12 076	378	10 968	272	785	97	504	30.8	65.1
Electronic repairers, communications and industrial equipment	28 637	28 272	365	26 261	341	1 036	24	1 307	30.8	78.9
Heating, air conditioning, and refrigeration mechanics	15 463	15 330	133	14 254	97	4 937	36	607	35.6	56.4
Other mechanics and repairers	127 226	122 409	4 817	113 801	4 194	4 933	465	5 650	30.8	71.1
Construction trades	112 287	109 287	3 000	99 761	2 776	5 052	140	7 956	31.0	65.3
Supervisors, construction occupations	3 850	3 706	144	3 492	137	146	7	151	32.6	73.7
Carpenters	23 621	23 000	621	21 212	531	911	66	1 345	40.4	76.4
Electricians	6 542	6 403	139	5 883	123	244	16	329	34.8	77.5
Painters, construction and maintenance	7 275	6 536	739	5 629	711	595	15	644	35.4	66.4
Plumbers, pipefitters, and steamfitters	3 256	3 201	55	2 887	55	217	—	172	35.5	75.1
Other construction trades	67 743	66 441	1 302	60 658	1 219	2 939	36	5 295	30.7	70.9
Persons of Spanish origin may be of any race.										

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Race										Spanish origin ¹				Median age				Percent high school graduates				Percent completed 4 or more years of college				Percent self-employed							
	Total					White					Black		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female			
	Male		Female		Total	Male		Female		Total	Male		Female		Total	Male		Female		Total	Male		Female		Total	Male		Female		Total	Male		Female	
	Both sexes																																	
Employed persons 16 years and over—Con.																																		
Precision production, craft, and repair occupations—Con.																																		
Extraction occupations																																		
Precision production occupations																																		
Supervisors, production occupations																																		
Precision metalworking occupations																																		
Tool and die makers																																		
Machinists																																		
Sheet metal workers																																		
Other precision metal workers																																		
Precision textile, apparel, and furnishings machine workers																																		
Precision food production occupations																																		
Precision inspectors, testers, and related workers																																		
Plant and system operators																																		
Other precision production occupations																																		
Operators, fabricators, and laborers																																		
Machine operators, assemblers, and inspectors																																		
Machine operators and tenders, except precision																																		
Precision metalworking machine operators																																		
Fabricating machine operators, n.e.c.																																		
Metal and plastic processing and woodworking machine operators																																		
Printing machine operators																																		
Textile machine operators																																		
Textile sewing machine operators																																		
n.e.c.																																		
Laundry and dry cleaning machine operators																																		
Packaging and filling machine operators																																		
Furnace, kiln, and oven operators, except food																																		
Other specified machine operators																																		
Miscellaneous and not specified machine operators																																		
Fabricators, assemblers, and hand working occupations																																		
Welders and cutters																																		
Solders and brazers																																		
Assemblers																																		
Hand working occupations																																		
Production inspectors, testers, samplers, and weighers																																		
Graders and sorters, except agricultural																																		
Other production inspectors, testers, samplers, and weighers																																		
Transportation and material moving occupations																																		
Transportation occupations																																		
Motor vehicle operators																																		
Truck drivers																																		
Other motor vehicle operators																																		
Other motor vehicle occupations																																		
Material moving equipment operators																																		
Supervisors, material moving equipment operators																																		
Crane, hoist and winch operators																																		
Excavating, grading, and dozer machine operators																																		
Other material moving equipment operators																																		
Handlers, equipment cleaners, helpers, and laborers																																		
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																																		
Helpers, craft and production																																		
Construction laborers																																		
Freight, stock, and material handlers																																		
Garage and service station occupations, and equipment cleaners																																		
Hand packers and packagers																																		
Laborers, except construction																																		

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	General merchandise stores														Percent self-employed	
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college					
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female		
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	2 091 598	623 125	1 468 473	534 257	1 283 838	61 594	132 059	38 797	74 802	30.0	33.8	76.5	74.3	15.8	6.0	0.6
Managerial and professional specialty occupations	241 877	113 114	128 763	104 268	116 900	5 893	8 411	3 601	4 010	34.7	33.7	94.2	87.7	41.2	23.0	0.8
Executive, administrative, and managerial occupations	211 402	100 202	111 200	92 546	100 724	5 175	7 557	3 032	3 594	34.7	34.0	94.3	86.8	40.5	21.7	0.9
Officials and administrators, public administration	20	8	12	5	7	—	—	—	—	31.7	25.0	100.0	98.8	—	—	—
Financial managers	6 809	3 416	3 393	3 229	3 173	98	142	59	108	38.7	38.5	98.3	90.8	45.8	17.6	—
Managers, marketing, advertising, and public relations	29 735	13 957	15 778	12 950	14 211	696	1 143	281	498	36.6	34.7	94.8	87.1	32.3	21.1	0.4
Administrators, education and related fields	112	54	58	34	45	—	13	6	—	45.5	46.5	100.0	75.9	37.0	31.0	0.8
Managers, medicine and health	20 373	10 162	10 211	9 488	9 483	379	526	275	281	34.5	36.4	97.5	88.6	53.3	24.0	—
Other specified managers	89 843	50 491	39 352	46 538	35 593	2 774	2 691	1 753	1 384	34.8	35.1	92.9	83.1	33.1	14.0	0.5
Managers and administrators, n.e.c.	87 310	48 996	38 314	44 926	34 675	2 744	2 691	1 726	1 370	34.4	34.9	93.4	83.0	33.5	14.1	1.7
Self-employed	2 533	1 695	858	1 612	855	30	14	27	14	49.6	45.6	77.9	85.1	21.3	9.1	77.3
Management related occupations	64 690	21 914	42 776	20 119	38 282	1 228	3 037	658	1 323	33.5	32.5	95.2	89.5	53.0	28.7	0.3
Accountants and auditors	10 734	3 676	7 058	3 210	5 859	221	789	197	372	31.7	34.2	99.1	91.7	71.1	15.7	1.5
Personnel, training, and labor relations specialists	7 997	1 935	6 062	1 676	5 508	195	372	93	195	33.4	37.6	93.4	89.4	40.5	20.4	0.2
Buyers and purchasing agents	44 119	15 462	28 657	14 454	26 071	768	1 747	330	718	33.8	31.5	94.8	88.9	50.8	34.0	0.4
Inspectors and compliance officers	182	89	93	89	73	—	7	—	—	37.6	49.2	93.3	50.5	16.9	4.3	—
Other management related occupations	1 658	752	906	690	771	44	122	38	31	38.4	32.9	90.7	95.1	46.3	20.5	0.2
Professional specialty occupations	30 275	12 912	17 363	11 722	16 076	718	854	569	416	34.4	32.2	93.4	93.0	46.6	31.2	0.6
Engineers, architects, and surveyors	1 216	1 091	125	1 014	97	42	11	42	416	41.0	32.7	96.2	96.0	54.1	41.6	0.6
Architects	324	285	39	279	39	6	—	30	—	42.2	29.0	100.0	100.0	74.7	25.6	—
Engineers	892	806	86	735	58	36	11	12	—	40.3	35.0	94.8	94.2	46.8	48.8	—
Civil engineers	79	79	—	69	—	—	—	—	—	37.1	—	100.0	—	62.0	—	—
Electrical and electronic engineers	103	95	8	85	8	10	—	8	—	35.7	50.0	93.7	100.0	43.2	100.0	—
Industrial engineers	262	195	67	177	39	5	11	8	—	39.3	33.8	100.0	92.5	71.8	43.3	—
Mechanical engineers	192	192	—	177	—	15	—	8	—	49.2	—	83.9	—	5.7	—	—
Other engineers	256	245	11	225	11	6	—	14	—	37.4	55.8	98.0	100.0	55.5	45.5	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	1 056	740	316	645	232	69	43	19	4	33.0	31.4	99.1	96.5	59.5	55.7	0.5
Operations and systems researchers and analysts	608	418	190	388	170	13	12	—	—	34.0	30.4	100.0	100.0	68.7	53.7	—
Mathematical scientists	290	24	266	17	223	28	28	—	17	35.0	36.2	100.0	92.9	100.0	18.4	—
Natural scientists	164	50	114	41	114	—	—	—	—	33.8	35.0	100.0	86.0	48.0	14.0	—
Chemists, except biochemists	17	—	17	—	—	—	—	—	—	—	25.0	—	100.0	—	—	—
Other natural scientists	147	50	97	41	97	—	—	—	—	33.8	33.8	100.0	83.5	48.0	5.2	—
Health diagnosing occupations	118	87	31	87	31	—	—	—	—	51.1	27.2	92.0	83.9	62.1	45.2	—
Health assessment and treating occupations	2 859	1 820	1 039	1 700	1 002	53	11	36	38	35.0	35.0	99.3	96.5	94.0	55.4	0.1
Registered nurses	441	17	424	13	424	4	—	—	6	41.4	50.9	100.0	96.9	64.7	29.0	—
Other health assessment and treating occupations	2 418	1 803	615	1 687	578	49	11	36	32	35.0	30.8	99.3	96.3	94.2	73.7	0.1
Teachers, except postsecondary	918	136	782	119	753	13	21	26	26	33.5	39.0	100.0	91.2	33.1	34.3	1.3
Social scientists and urban planners	439	206	233	199	213	3	20	15	26	34.6	28.4	99.0	95.7	71.4	54.5	—
Social and recreation workers	126	22	104	16	89	—	—	—	—	25.0	39.4	100.0	71.2	—	5.8	—
Lawyers and judges	599	429	170	409	144	5	26	24	—	40.1	32.1	98.4	100.0	98.4	92.9	2.9
Writers, artists, entertainers, and athletes	21 719	7 870	13 849	7 068	12 906	520	611	433	331	33.3	31.8	90.1	92.9	28.9	27.8	0.7
Other professional specialty occupations	163	19	144	19	102	—	36	—	—	52.3	29.1	100.0	83.3	31.6	12.5	—
Technical, sales, and administrative support occupations	1 513 170	307 190	1 205 980	265 310	1 059 167	28 679	103 779	18 759	62 901	28.7	33.5	79.7	74.1	14.0	4.5	0.6
Technicians and related support occupations	6 459	4 596	1 863	4 060	1 529	323	244	249	69	33.5	30.1	90.3	93.7	20.1	29.7	1.0
Health technicians and technicians	168	75	93	49	24	26	14	—	—	32.7	31.1	92.0	75.3	37.3	—	—
Licensed practical nurses	43	12	31	12	31	—	—	—	—	35.0	46.5	100.0	51.6	100.0	—	—
Other health technicians and technicians	125	63	62	37	48	26	14	—	—	32.3	25.0	90.5	87.1	25.4	—	—
Engineering and science technicians	2 072	1 747	325	1 582	239	111	72	94	9	35.8	31.4	90.2	90.5	8.5	23.1	1.5
Electrical and electronic technicians	1 205	1 138	67	1 035	62	69	5	53	—	37.0	43.1	88.2	100.0	37.2	16.4	—
Industrial and mechanical engineering technicians	52	52	—	52	—	—	—	—	—	25.0	—	—	—	—	—	—
Drafting and surveying technicians	533	419	114	372	89	27	18	14	9	32.5	27.9	96.9	93.9	13.5	28.9	—
Other engineering and science technicians	282	138	144	123	88	15	49	13	—	36.8	32.5	90.6	83.3	7.2	21.5	3.5
Technicians, except health, engineering, and science	4 219	2 774	1 445	2 429	1 211	186	158	155	60	32.5	29.9	90.2	95.6	27.0	33.1	0.9
Airplane pilots and navigators	56	56	—	56	—	—	—	—	—	40.7	—	100.0	—	32.1	—	—
Air traffic controllers and broadcast equipment operators	62	5	57	—	—	—	—	—	—	60.0	—	—	—	—	—	—
Computer programmers	2 415	1 494	921	1 284	57	82	101	63	39	30.9	32.7	98.3	86.0	43.4	10.5	—
Other technicians, except health, engineering, and science	1 686	1 219	467	1 084	386	104	57	92	21	35.7	28.9	80.2	90.6	6.6	11.3	0.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States																		
General merchandise stores																		
Total			White		Black		Spanish origin ^a		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Both sexes			Male		Female		Male		Female		Male		Female		Male		Female	
1 130 648	234 310	896 358	204 941	790 572	18 422	74 038	13 009	46 399	29.8	32.5	81.1	71.5	15.3	4.5	3.6	0.7		
160 510	75 772	84 738	69 444	5 072	4 091	5 072	3 146	34.7	34.1	91.2	79.9	25.5	11.2	8.4	4.1			
130 056	69 219	60 837	63 375	73 805	3 750	4 957	3 020	71.3	33.6	92.7	80.4	26.6	11.3	97.4	87.9			
1 795	6 513	3 941	6 069	1 188	341	115	128	96	51.5	49.0	71.3	89.3	39.5	17.1	13.2	0.2		
40	53	16	47	15	6	—	—	—	32.2	30.6	92.5	100.0	67.9	—	—	—		
966 471	157 782	808 689	136 832	710 451	14 268	68 779	9 893	43 158	27.0	32.9	92.5	70.6	10.2	3.8	0.3	0.2		
195 253	11 618	183 635	9 010	154 197	1 753	21 149	1 166	16.6	25.0	62.5	64.4	6.1	4.3	1.4	0.4			
771 218	146 164	625 054	127 822	556 254	12 515	47 430	8 727	30 597	26.3	34.9	77.3	71.8	10.6	4.3	1.4	0.4		
1 823	191	1 632	170	1 475	21	91	32	—	43.8	42.4	69.6	86.0	28.3	17.7	12.0	1.3		
376 043	48 284	307 759	54 289	267 066	9 934	29 497	5 501	16 433	25.0	35.7	74.2	81.6	9.3	4.2	0.5	0.2		
26 221	2 283	18 938	6 187	17 058	715	1 384	454	284	32.9	40.0	91.2	84.1	20.7	5.5	0.6	0.3		
2 438	2 438	1 000	1 438	2 438	409	2 029	208	—	29.3	31.0	92.8	85.9	13.5	6.4	0.7	—		
31 979	3 596	28 383	3 306	27 644	52	2 754	51	1 779	29.1	33.3	87.1	91.0	23.7	4.7	—	0.1		
26 176	236	25 940	174	23 321	17	1 729	16	1 594	32.2	32.5	85.6	91.8	21.6	5.1	—	—		
5 803	140	5 663	132	4 323	17	1 025	35	385	25.2	32.1	89.4	87.1	26.9	3.9	—	—		
4 038	82	3 956	82	3 403	61	401	12	273	25.0	31.1	78.0	79.8	7.3	2.6	—	—		
11 885	701	11 184	560	9 849	61	960	56	593	25.0	34.8	86.7	83.7	18.5	5.2	—	0.2		
3 124	301	2 823	226	2 044	40	628	47	186	25.0	32.4	64.1	75.0	6.3	3.5	0.9	0.2		
28 384	3 537	24 847	2 926	21 843	457	2 303	299	1 274	25.4	35.5	74.3	80.2	9.6	3.9	—	—		
46 863	2 048	44 815	1 624	40 534	204	2 785	262	1 869	28.8	36.2	86.8	86.7	21.0	4.4	3.8	0.5		
4 393	4 393	4 257	114	3 845	204	2 85	25	172	29.1	37.9	93.4	86.1	20.6	2.7	—	0.1		
9 808	687	9 121	596	7 975	51	768	25	541	25.0	38.1	73.4	77.9	15.7	2.4	—	—		
8 807	1 611	8 646	125	7 714	24	743	22	306	25.0	35.6	76.4	78.0	7.5	2.2	0.7	—		
1 324	2 198	843	1 751	364	331	181	172	172	25.0	35.6	74.4	74.2	8.2	3.4	—	—		
15 889	2 097	13 792	1 769	11 847	212	1 539	169	652	25.0	34.2	75.1	78.6	13.3	6.0	0.6	0.1		
30 846	16 219	14 627	12 844	2 424	2 533	1 678	1 353	753	26.0	37.3	76.3	75.7	4.6	2.8	0.6	0.1		
38 344	21 727	17 177	16 645	14 526	3 329	1 891	1 594	1 001	25.0	33.4	60.5	70.7	4.4	3.0	0.2	0.1		
14 329	2 645	16 478	2 154	13 899	370	1 928	214	1 002	26.8	32.8	89.5	65.8	5.9	1.4	—	0.2		
19 123	2 410	9 747	271	7 289	68	1 752	49	769	25.0	31.5	86.3	86.9	19.8	6.7	—	0.1		
10 157	4 997	5 160	3 556	49 693	684	5 062	373	2 971	25.0	36.6	76.2	79.9	12.9	4.2	1.8	0.2		
61 713	4 997	56 716	3 556	49 693	684	5 062	373	2 971	25.0	36.6	76.2	79.9	12.9	4.2	1.8	0.2		
115 178	52 659	62 519	39 125	48 785	10 504	11 256	4 690	3 191	30.9	36.3	55.9	59.4	5.3	2.7	0.5	0.3		
25 797	13 457	12 338	10 902	10 262	2 043	1 709	745	684	31.3	32.0	76.8	73.6	10.9	6.2	0.2	—		
24 211	12 459	11 999	9 866	9 916	1 917	1 661	687	673	30.8	32.0	75.1	72.9	9.4	5.8	0.2	—		
1 586	1 187	399	1 036	746	126	9 459	3 946	58	34.1	30.2	94.8	93.7	25.9	18.0	0.6	0.4		
89 381	39 200	50 181	28 233	38 529	8 446	9 547	3 945	2 507	30.7	37.5	48.7	55.9	3.4	1.8	0.6	0.2		
43 070	7 601	35 409	5 768	28 335	1 397	5 822	830	1 319	32.1	38.9	44.9	54.2	2.9	1.4	0.5	0.2		
531	81	450	73	435	—	15	32	—	28.5	28.5	100.0	82.4	51.9	1.6	8.6	0.6		
37 027	30 152	6 875	21 329	6 076	6 872	2 801	2 951	606	35.3	32.9	48.7	42.2	3.1	1.6	0.4	0.2		
8 753	1 306	7 447	1 053	6 076	192	909	156	550	34.8	32.9	69.5	74.9	10.3	4.4	3.4	1.7		
400	264	136	188	123	44	13	29	8	39.2	27.0	45.8	61.0	—	—	—	5.1		
95 506	64 622	30 884	55 870	25 980	5 489	3 390	4 584	1 996	35.3	43.3	75.8	69.7	5.5	5.5	0.9	0.5		
41 133	39 001	2 152	34 077	1 707	2 905	382	2 677	69	32.3	29.2	76.6	79.0	2.2	4.8	0.4	0.2		
18 992	1 007	1 664	951	131	26	33	53	—	38.4	50.3	85.9	89.0	10.3	12.8	0.9	0.5		
1 333	1 265	68	15 643	504	1 590	94	1 398	21	25.0	25.0	72.6	77.3	1.3	3.3	0.2	—		
3 480	3 404	76	3 038	68	179	8	335	—	33.7	28.6	74.1	80.9	2.8	—	0.6	—		
1 509	1 493	16	12 138	952	840	215	469	—	—	—	87.1	68.4	3.6	—	—	—		
14 668	13 452	1 216	10 293	6	110	10	136	—	37.6	33.0	81.2	100.0	0.8	—	0.8	—		
6 543	6 257	286	5 582	280	361	—	499	21	38.3	31.3	78.6	78.8	2.4	5.2	0.6	—		
2 644	2 240	24	2 112	504	5	—	42	10	42.9	36.2	67.7	76.2	4.5	9.1	3.8	—		
1 015	983	32	2 240	24	30	—	120	36	45.5	35.0	83.7	83.7	13.8	20.0	2.7	—		
847	809	38	826	32	69	—	67	—	25.0	25.0	80.3	65.6	3.9	—	2.7	—		
196	181	15	693	38	85	—	122	5	43.4	34.7	59.2	76.3	2.7	42.1	1.0	13.2		
1 525	1 398	127	1 198	121	150	—	137	6	45.7	25.0	69.1	60.0	2.7	42.1	1.0	13.2		
									34.8	45.1	63.7	85.0	3.3	—	9.7	3.9		

Table 1. **Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.**

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

[illegible]

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Food, bakery, and dairy stores									
	Total										Percent high school graduates									
	Both sexes		Male		Female		White		Black		Spanish origin ¹		Median age		Percent completed 4 or more years of college		Percent self-employed			
Employed persons 16 years and over	2 503 595	1 357 919	1 145 676				1 196 790	1 040 528	91 815	64 464	93 464	50 230	28.2	31.0	6.4	3.0	8.0	4.7		
Managerial and professional specialty occupations	165 896	118 299	47 597				108 082	43 651	5 262	2 207	5 598	1 667	35.5	35.4	19.6	11.0	10.5	10.2		
Executive, administrative, and managerial occupations	158 314	113 864	44 450				104 100	40 744	4 995	2 121	5 438	1 483	35.5	35.7	18.3	9.7	10.8	10.8		
Officials and administrators, public administration	1 485	1 045	441				80	30	—	—	—	—	38.3	—	42.3	—	—	—		
Financial managers	1 485	1 045	441				80	30	—	—	—	—	38.3	—	42.3	—	—	—		
Managers, marketing, advertising, and public relations	11 219	8 555	2 664				8 130	2 459	183	120	322	70	37.2	37.9	23.6	18.8	0.3	0.9		
Administrators, education and related fields	46	37	9				37	4	—	5	—	—	38.7	40.0	23.6	14.0	5.9	10.4		
Managers, medicine and health	6 745	4 583	2 162				3 949	2 002	—	—	—	—	—	—	—	—	—	—		
Other specialized managers	118 196	86 457	31 739				78 686	29 000	4 123	1 568	4 162	984	35.6	35.9	21.6	12.4	11.0	11.0		
Managers, science and administration, n.e.c.	102 191	75 494	26 697				69 165	24 578	3 490	1 297	3 570	786	35.4	35.6	15.3	7.6	12.2	12.7		
Self-employed	16 005	10 963	5 042				9 621	4 422	633	271	572	188	33.8	34.7	13.1	7.3	9.4	80.0		
Management related occupations	20 592	13 157	7 435				12 283	6 876	407	340	497	315	36.6	33.1	30.2	15.8	5.5	3.1		
Accountants and auditors	6 965	3 483	3 482				3 243	3 195	126	184	138	122	33.1	32.4	20.2	15.5	1.7	1.8		
Personnel, training, and labor relations specialists	3 789	2 381	1 408				2 137	1 329	138	73	135	87	34.1	32.8	27.2	20.0	4.9	6.0		
Buyers and purchasing agents	9 116	6 833	2 283				6 472	2 134	127	47	210	100	40.3	34.1	22.6	13.7	7.7	3.5		
Inspectors and inspectors of work	135	91	44				87	30	4	14	6	6	55.5	53.8	18.7	13.7	—	—		
Other management related occupations	587	369	218				344	188	12	22	8	6	36.0	33.8	61.2	17.9	8.1	0.9		
Professional specialty occupations	7 582	4 435	3 147				3 982	2 907	267	86	160	184	36.5	32.2	52.0	29.5	2.1	2.3		
Engineers, architects, and surveyors	1 266	1 069	97				1 002	90	36	—	20	7	31.4	31.4	50.2	58.8	0.7	—		
Architects	146	125	21				115	8	6	—	2	—	38.5	35.6	38.9	—	3.5	—		
Engineers	920	838	82				777	82	30	—	11	—	38.5	31.5	58.0	69.5	—	—		
Civil engineers	157	151	6				142	6	6	—	3	—	42.4	30.0	51.9	—	—	—		
Electrical and electronic engineers	72	72	—				65	—	7	—	—	—	29.7	100.0	31.9	—	—	—		
Industrial engineers	337	261	76				228	76	8	—	8	—	38.9	31.7	62.8	75.0	—	—		
Mechanical engineers	167	167	—				164	—	—	—	—	—	43.6	77.8	24.0	—	—	—		
Other engineers	187	187	—				178	—	9	—	—	—	34.5	—	52.4	—	—	—		
Surveyors and mapping scientists	—	—	—				—	—	—	—	—	—	—	—	—	—	—	—		
Computer systems analysts and scientists	340	256	104				213	91	17	6	23	—	37.6	34.6	52.7	46.2	2.3	—		
Operations and systems researchers and analysts	221	185	36				178	36	7	—	6	—	33.7	35.0	26.5	73.0	—	—		
Mathematical scientists	36	23	13				15	13	8	—	—	—	27.3	55.7	30.4	45.2	—	—		
Natural scientists	184	115	69				91	63	18	—	—	—	32.4	30.0	17.1	55.3	7.0	—		
Chemists, except physicists	45	18	27				2	21	10	—	—	—	30.6	35.0	33.3	33.3	—	—		
Physicists	139	97	42				89	42	8	—	—	—	30.6	35.0	33.3	33.3	—	—		
Health diagnosing occupations	55	48	7				23	364	7	—	16	—	42.1	30.0	58.3	—	—	—		
Health assessment and treating occupations	1 236	839	397				775	364	42	21	10	12	42.1	32.3	88.0	67.0	54.2	100.0		
Registered nurses	65	15	50				15	50	—	—	—	—	51.8	42.0	100.0	24.0	—	12.0		
Other health assessment and treating occupations	1 171	824	347				760	314	42	21	10	12	40.3	31.2	87.7	73.2	—	0.6		
Teachers, except postsecondary	356	91	265				65	236	19	—	—	—	33.1	31.3	39.6	43.0	7.7	3.4		
Social scientists and urban planners	371	279	112				266	100	13	6	11	—	39.8	34.1	56.3	33.0	—	—		
Social and recreation workers	102	41	61				33	51	8	—	—	—	28.5	41.5	34.1	24.6	—	8.2		
Lawyers and judges	181	175	6				169	6	—	—	—	—	100.0	100.0	93.1	17.0	3.0	2.2		
Writers, artists, entertainers, and athletes	3 140	1 231	1 909				1 079	1 799	94	43	74	142	32.9	31.9	82.4	3.9	—	3.9		
Other professional specialty occupations	134	83	51				73	51	5	—	—	—	38.4	41.8	41.0	—	—	—		
Technical, sales, and administrative support occupations	1 347 501	498 704	848 797				440 006	773 771	30 541	45 764	33 104	36 408	31.1	30.4	8.6	2.9	15.1	4.9		
Technicians and related support occupations	2 802	1 977	825				1 814	725	75	61	76	30	30.6	30.9	24.9	21.5	2.3	1.1		
Health technologists and technicians	60	19	41				19	41	—	—	—	—	31.8	29.0	29.3	29.3	—	—		
Health technologists and technicians	12	12	—				—	—	—	—	—	—	—	—	—	—	—	—		
Licensed practical nurses	48	19	29				19	29	—	—	—	—	31.8	26.9	26.3	20.7	—	—		
Other health technologists and technicians	1 032	726	306				629	261	63	37	40	12	29.2	28.7	14.3	18.6	1.9	—		
Engineering and science technicians	169	106	63				95	37	6	18	5	8	32.5	32.5	34.0	9.5	—	—		
Electrical and electronic technicians	176	170	6				166	6	4	—	—	—	25	30.0	3.3	3.3	—	—		
Industrial and mechanical engineering technicians	321	243	78				223	73	16	5	—	4	30.7	27.8	10.3	21.8	4.9	—		
Drafting and surveying technicians	366	207	159				145	145	37	14	—	—	32.3	27.8	16.4	21.4	1.0	—		
Other engineering and science technicians	1 710	1 232	478				1 145	423	12	24	36	18	31.1	32.1	22.6	22.6	2.6	1.9		
Technicians, except health, engineering, and science	45	45	—				—	—	—	—	—	—	56.7	84.4	4.4	—	—	—		
Airplane pilots and navigators	10	10	—				—	—	—	—	—	—	30.0	—	—	—	—	—		
Air traffic controllers and broadcast equipment operators	1 236	906	332				849	301	12	14	29	18	30.1	30.9	34.9	26.5	—	—		
Computer programmers	417	271	146				262	122	—	10	7	—	33.2	39.2	24.4	13.7	11.8	6.1		
Other technicians, except health, engineering, and science	—	—	—				—	—	—	—	—	—	—	—	—	—	—	—		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Food, bakery, and dairy stores									
	Total		White		Black		Spanish origin ¹		Median age	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	1 148 408	414 569	733 839	367 731	22 633	40 777	27 350	32 016	29.6	28.6
Secretaries	307 427	226 960	80 467	206 093	9 237	3 635	12 487	3 016	32.1	32.1
Sales and proprietors, sales occupations	215 395	163 880	51 515	150 612	6 122	2 047	8 452	3 643	33.8	33.8
Self-employed	92 032	63 080	28 952	55 481	3 115	1 588	4 035	1 434	47.7	47.7
Sales representatives, finance and business services	625	6	28 217	385	13	—	—	14	35.2	35.2
Sales representatives, commodities, except retail	10	6	4	—	—	—	—	—	25.4	25.4
Sales, retailers, retail and personal services	838 815	565 902	651 762	161 126	13 362	37 120	14 863	28 894	30.0	30.0
Truckers	728 678	350 902	571 776	134 228	11 870	35 413	12 739	26 011	25	25
Other sales occupations, retail and personal services	110 137	79 986	79 986	26 898	1 492	1 707	2 104	2 883	30.8	30.8
Sales related occupations	1 531	1 142	1 389	121	21	22	—	11	37.0	37.0
Administrative support occupations, including clerical	196 291	82 158	114 133	70 461	7 833	4 926	5 678	4 362	34.3	34.3
Supervisors, administrative support occupations	16 264	8 490	7 774	7 634	515	272	528	271	35.2	35.2
Computer equipment operators	3 013	1 350	1 663	1 217	89	114	63	42	31.5	31.5
Secretaries, stenographers, and typists	16 211	4 448	15 763	1 402	22	606	74	481	33.2	33.2
Secretaries	14 652	3 444	14 308	266	14	448	62	407	34.9	34.9
Stenographers and typists	1 559	1 04	1 455	84	8	158	12	192	25	25
Receptionists	1 277	69	1 208	66	3	75	2	71	25	25
Other information clerks	502	148	354	143	—	6	15	39	43.6	43.6
File clerks	777	108	669	100	8	72	26	27.5	26.7	26.7
Other records processing occupations, except financial	12 743	6 994	5 749	6 040	483	244	752	242	28.4	28.4
Bookkeepers, accounting, and auditing clerks	44 671	3 077	41 594	2 700	221	1 121	165	1 504	37.0	37.0
Payroll and timekeeping clerks	1 811	62	1 749	62	49	197	162	8	34.2	34.2
Other financial records processing occupations	3 823	1 457	2 366	1 290	2	104	6	22	25	25
Telephone operators	511	6	505	—	178	57	112	15	25	25
Mail and message distributing occupations	1 699	1 122	577	834	33	352	116	27.3	32.1	32.1
Production coordinators and expeditors	8 480	4 101	4 379	3 588	3 921	330	304	93	35.6	35.6
Traffic, shipping, and receiving clerks	9 386	8 210	1 176	7 071	959	73	620	313	31.3	31.3
Stock and inventory clerks	40 420	34 763	5 657	29 182	4 138	356	2 104	357	29.8	29.8
Other material recording, scheduling, and distributing clerks	3 076	1 622	1 454	1 322	220	83	128	47	31.1	31.1
Adjusters and investigators	1 711	907	804	40	73	319	16	220	25.4	25.4
Date-entry clerks	2 956	1 150	2 806	129	644	851	590	644	31.9	31.9
Other administrative support occupations	26 960	9 074	17 886	7 942	—	—	—	—	33.0	33.0
Service occupations	100 008	45 844	54 164	36 065	6 512	4 797	4 787	2 413	25	25
Private household occupations	4 328	3 764	564	2 604	904	65	294	42	37.6	37.6
Protective service occupations	4 058	3 502	556	2 371	875	65	284	42	37.1	37.1
Guards	270	262	8	233	29	—	10	—	25	25
Other protective service occupations	95 680	42 080	53 600	33 461	5 608	4 732	4 493	2 371	25	25
Service occupations, except protective and household	64 120	15 889	48 231	13 160	1 594	3 871	1 382	1 909	25	25
Food preparation and service occupation	338	28	48	123	1	42	18	—	31.3	31.3
Health service occupations	29 453	25 865	3 588	20 054	3 970	737	3 060	397	25	25
Cleaning and building service occupations, except household	1 769	196	1 571	124	44	82	33	65	30.0	30.0
Personal service occupations	902	657	245	476	165	25	31	—	27.7	27.7
Farming, forestry, and fishing occupations	264 595	222 259	42 336	200 300	11 631	2 212	16 161	1 917	34.4	34.4
Precision production, craft, and repair occupations	8 425	8 115	310	7 347	486	25	305	8	37.6	37.6
Mechanics and repairers	634	552	82	523	25	—	174	—	41.8	41.8
Supervisors, mechanics and repairers	1 838	1 824	14	1 562	140	8	93	—	38.7	38.7
Automobile mechanics, including body	1 410	1 389	21	1 257	72	—	—	—	39.7	39.7
Industrial machinery repairers	52	44	8	44	—	—	—	—	47.3	47.3
Electronic repairers, communications and industrial equipment	1 422	1 417	5	1 314	64	—	36	—	25	25
Heating, air conditioning, and refrigeration mechanics	3 069	2 889	180	2 647	185	7	202	8	38.8	38.8
Other mechanics and repairers	3 258	3 192	66	2 945	185	6	79	—	25.0	25.0
Construction trades	503	499	4	473	64	—	37	—	41.5	41.5
Supervisors, construction occupations	1 437	1 421	16	1 313	64	—	37	—	41.4	41.4
Carpenters	549	549	8	549	52	—	22	—	35.5	35.5
Electricians	360	352	8	300	52	—	22	—	37.9	37.9
Painters, construction and maintenance	223	223	8	192	25	—	—	—	37.4	37.4
Plumbers, pipefitters, and steamfitters	186	166	20	141	25	—	5	—	38.3	38.3
Other construction trades	—	—	—	—	—	—	—	—	—	—

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States											
	Food, bakery, and dairy stores						Percent completed 4 or more years of college					
	Percent high school graduates						Percent self-employed					
	Median age						Percent completed 4 or more years of college					
Both sexes	Race						Spanish origin ¹					
	Total		White		Black		Male		Female		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.												
Extraction occupations	48	152	37	11	41	949	20	189	988	38	247	5
Precision production occupations	232	864	210	915	22	915	189	988	38	247	5	247
Supervisors, production occupations	27	932	22	932	5	534	20	172	5	534	20	172
Precision manufacturing occupations	591	507	507	84	12	23	46	264	40	26	14	4
Tool and die makers	35	203	203	12	23	46	264	40	26	14	4	4
Metal workers	385	339	339	46	26	14	4	26	14	4	26	14
Sheet metal workers	23	148	148	26	14	4	26	14	4	26	14	4
Other precision metal workers	148	122	122	26	14	4	26	14	4	26	14	4
Precision textile, apparel, and furnishings machine workers	230	213	213	67	184	63	34	34	34	34	34	34
Precision food production occupations	223	186	186	36	194	36	194	36	194	36	194	36
Precision processors, testers, and related workers	62	50	50	32	44	2	2	2	2	2	2	2
Plant and system operators	679	646	646	33	463	33	463	33	463	33	463	33
Other precision production occupations	252	217	217	33	198	33	198	33	198	33	198	33
Operators, fabricators, and laborers	624	693	472	156	152	537	411	861	137	153	37	704
Machine operators and inspectors	18	184	10	181	8	714	8	714	8	714	8	714
Machine operators and textile, except precision	7	154	6	154	1	686	2	686	1	686	1	686
Metalworking and plastic working machine operators	104	70	70	34	8	34	8	34	8	34	8	34
Fabricating machine operators, n.e.c.	8	8	8	8	8	8	8	8	8	8	8	8
Metal and plastic processing and woodworking machine operators	85	58	58	37	42	12	12	12	12	12	12	12
Printing machine operators	900	583	583	317	303	303	303	303	303	303	303	303
Textile machine operators	40	40	40	24	16	16	16	16	16	16	16	16
Textile sewing machine operators	19	19	19	12	7	7	7	7	7	7	7	7
Landscaping and dry cleaning machine operators	37	16	16	21	16	16	16	16	16	16	16	16
Production and filling machine operators	373	334	334	259	243	183	183	183	183	183	183	183
Food, kind and name operators, except food	16	16	16	14	14	14	14	14	14	14	14	14
Other specified machine operators	2	516	516	732	1	351	623	317	106	51	110	41.9
Miscellaneous and not specified machine operators	5	278	3	278	2	385	1	687	384	418	120	34.6
Fabricators, assemblers, and hand working occupations	5	810	3	408	2	402	2	796	144	269	83	31.9
Welders and cutters	693	657	657	36	536	27	536	27	536	27	536	27
Solders and brazers	1	741	741	448	558	412	412	412	412	412	412	412
Assemblers	3	908	2	908	1	702	1	702	1	702	1	702
Hand working occupations	2	734	1	734	1	483	1	483	1	483	1	483
Production inspectors, testers, samplers, and weighers	1	890	1	890	1	254	1	254	1	254	1	254
Graders and sorters, except agricultural	844	615	615	229	514	213	514	213	514	213	514	213
Other production inspectors, testers, samplers, and weighers	52	380	50	720	1	660	42	510	1	660	42	510
Transportation and material moving occupations	44	610	44	610	1	441	36	785	1	441	36	785
Transportation occupations	44	610	44	610	1	441	36	785	1	441	36	785
Motor vehicle operators	34	473	33	481	1	426	27	906	1	426	27	906
Truck drivers	8	655	8	655	1	454	7	689	1	454	7	689
Driver-sales workers	1	438	1	438	1	161	1	161	1	161	1	161
Other material moving occupations	44	610	44	610	1	441	36	785	1	441	36	785
Rail and water transportation occupations	7	770	7	770	1	519	5	725	1	519	5	725
Material moving occupations	122	122	122	122	122	122	122	122	122	122	122	122
Supervisors, material moving equipment operators	49	49	49	49	49	49	49	49	49	49	49	49
Crane, hoist, and winch operators	94	94	94	94	94	94	94	94	94	94	94	94
Excavating, grading, and dozer machine operators	7	505	7	505	1	179	5	518	1	179	5	518
Other material moving equipment operators	553	979	410	655	143	324	360	637	129	372	30	557
Handers, equipment cleaners, helpers, and laborers	45	26	26	19	24	19	24	19	24	19	24	19
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	6	705	3	705	3	669	3	669	3	669	3	669
Helpers, craft and production	303	303	303	296	296	296	296	296	296	296	296	296
Construction laborers	458	649	371	625	87	624	329	785	78	747	24	687
Freight, stock, and material handlers	5	859	4	859	1	834	3	642	739	376	88	27.5
Garage and service station occupations, and equipment cleaners	56	853	48	199	6	972	44	149	997	2	558	25
Hand packers and packagers	26	365	22	365	4	289	16	947	3	1007	3	1007
Laborers, except construction	553	979	410	655	143	324	360	637	129	372	30	557

¹Persons of Spanish origin may be of any race.

Table 1. **Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.**
 (Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A)

Automotive dealers and gasoline stations														
United States														
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Black										
Employed persons 16 years and over	1 907 506	1 581 366	326 140	1 452 753	307 916	80 141	10 637	73 561	10 613	32.8	33.4	67.5	79.6	4.5
Managerial and professional specialty occupations	174 629	146 786	27 843	141 462	26 912	2 626	401	4 071	609	39.6	38.4	86.5	90.3	11.3
Executive, administrative, and managerial occupations	170 429	143 459	26 970	138 353	26 126	2 572	365	3 933	588	39.6	38.6	86.4	90.1	10.5
Office, administrative, and public administration	13	13		13						25		46.2		
Financial managers	7 290	5 495	1 795	5 305	1 391	58	33	228	17	35.7	38.8	94.6	93.3	10.0
Managers, marketing, advertising, and public relations	39 177	37 764	1 413	36 633	1 391	544	7	946	59	38.7	34.7	89.1	89.8	4.6
Administrators, education and related fields	153	149	4	134	4	7		5		45.6	45.0	96.0	100.0	10.7
Managers, medicine and health														
Other specified managers	4 573	3 946	627	3 175	572	116	22	193	27	38.8	33.8	80.5	84.5	18.2
Managers and administrators, n.e.c.	104 061	85 578	18 483	82 607	18 100	1 545	142	2 192	331	40.4	39.8	84.6	88.8	8.4
Salaried	93 128	75 791	17 337	73 238	16 976	1 348	130	1 873	208	39.7	39.4	85.9	89.3	8.2
Self-employed	10 933	9 787	1 146	9 369	1 124	197	12	313	23	45.9	44.9	74.8	81.6	11.6
Management related occupations	15 162	10 514	4 648	9 946	4 331	252	163	369	154	39.5	34.5	88.3	94.9	17.7
Accountants and auditors	8 309	4 801	3 508	4 457	3 274	128	119	132	96	40.1	34.8	98.1	96.2	20.1
Personnel, training, and labor relations specialists	1 892	1 563	329	1 476	284	55	34	40	5	37.4	35.0	94.4	94.5	2.3
Buyers and purchasing agents	3 156	3 156	604	3 112	583	20		32		41.0	32.9	77.2	87.2	12.5
Inspectors and compliance officers	3 165	3 165	5	111	3	8		64		30.7	30.0	64.4	100.0	7.8
Other management related occupations	1 036	834	202	788	185	41	10	23	16	37.4	33.7	86.3	88.6	15.8
Professional specialty occupations	4 200	3 327	873	3 109	786	104	36	138	21	37.1	33.7	91.0	95.3	3.6
Engineers, architects, and surveyors	805	643	162	515	122	16		14		35.7	33.0	91.3	100.0	5.7
Architects	81	69	12	64	12			14		44.7	36.0	82.6	100.0	2.5
Engineers	787	747	20	724	20	16				34.7	30.0	92.9	100.0	23.2
Civil engineers	88	86	4	84	4					31.0	30.0	100.0	100.0	0.7
Electrical and electronic engineers	86	86		86						37.1	30.0	100.0	100.0	
Mechanical engineers	162	156	6	147	6	9		19		87.8	100.0	100.0	100.0	
Industrial engineers	92	92		85		7		34.2		94.8	39.1	100.0	100.0	
Other engineers	365	355	10	348	10			35.4		94.4	62.0	100.0	100.0	1.4
Surveyors and mapping scientists	27	27		27				40.0		70.4				
Computer systems analysts and scientists	303	228	75	192	59	31	10	10		37.8	29.6	100.0	100.0	
Operations and systems researchers and analysts	157	130	27	130	27			33.1		96.9	39.3	96.9	100.0	51.9
Mathematical scientists	43	22	21	22	21			60.0		57.1	36.4	100.0	100.0	
Natural scientists	202	155	47	155	23			7		31.8	27.3	96.8	78.7	72.3
Chemists, except biochemists	36	31	5	31						30.0	30.0	100.0	100.0	
Other natural scientists	166	124	42	124	23			7		32.6	26.6	96.0	68.5	100.0
Health diagnosing occupations	140	108	32	100	12			7		46.9	50.5	100.0	100.0	21.9
Health assessment and treating occupations	139	42	97	35	91			7		49.3	43.5	78.6	100.0	52.4
Registered nurses	90				84						42.7	100.0	100.0	19.0
Other health assessment and treating occupations	49	42	7	35	7			7		49.3	60.0	100.0	100.0	71.4
Teachers, except postsecondary	366	329	37	320	37			37		31.1	31.9	95.1	94.6	1.2
Social scientists and urban planners	407	338	69	332	61			41.4		99.4	94.2	30.5	56.8	4.4
Social and recreation workers	49	45	4	45	4			29.1		25		100.0	100.0	
Lawyers and judges	142	106	36	106	36					37.2	32.5	100.0	100.0	
Writers, artists, entertainers, and athletes	1 277	815	362	712	349	43		56	14	42.2	33.5	81.2	97.0	10.3
Other professional specialty occupations	200	166	34	145	34	14		7		38.0	35.8	77.1	85.3	5.2
Technical, sales, and administrative support occupations	846 399	590 856	255 543	557 587	243 251	18 361	6 588	23 831	8 259	37.1	33.5	77.2	81.8	4.2
Technicians and related support occupations	8 265	3 076	5 189	2 730	5 003	268	63	128	153	33.1	31.9	82.0	89.8	19.8
Health technologists and technicians	105	39	66	39	60					50.5	27.7	35.9	100.0	5.0
Licensed practical nurses	23	13	10	13						55.7	25	46.2	100.0	
Other health technologists and technicians	82	26	56	26	50					30.8	30.0	30.8	100.0	
Engineering and science technicians	1 113	987	126	842	111	113	6	63		32.6	32.9	79.6	81.7	15.3
Electrical and electronic technicians	386	341	45	306	45	31		17		33.9	30.7	86.2	88.9	9.4
Industrial and mechanical engineering technicians	80	80		80						35.0		88.8		
Drafting and surveying technicians	346	291	55	196	46	74		46		31.2	31.5	73.5	78.2	22.5
Other engineering and science technicians	301	275	26	260	20	8	6			31.7	40.0	75.3	76.9	12.4
Technicians, except health, engineering, and science	7 047	2 050	4 997	1 849	4 832	155	57	65	153	33.1	31.9	84.0	89.9	21.7
Airplane pilots and navigators	324	318	6	311	6	7		11		34.8	40.0	98.4	100.0	4.7
Air traffic controllers and broadcast equipment operators	51	38	13	38	13			25		43.1	53.8	60.5	53.8	2.2
Computer programmers	760	430	280	383	227	41		9		31.9	35.6	95.8	91.1	2.9
Other computer, engineering, and science technicians	5 962	1 264	4 698	1 117	4 586	107	37	43	144	33.4	32.0	77.1	89.9	11.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A)

United States

Automotive dealers and gasoline stations

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Sales occupations
Supervisors and proprietors, sales occupations
Sales
Self-employed
Sales representatives, finance and business services
Sales representatives, commodities, except retail
Sales workers, retail and personal services
Cashiers
Other sales occupations, retail and personal services
Sales related occupations
Administrative support occupations, including clerical
Supervisors, administrative support occupations
Computer equipment operators
Secretaries, stenographers, and typists
Stenographers and typists
Receptionists
Other information clerks
File clerks
Other records processing occupations, except financial
Bookkeepers, accounting, and auditing clerks
Payroll and timekeeping clerks
Other financial records processing occupations
Telephone operators
Mail and message distributing occupations
Production coordinators and expeditors
Traffic, shipping, and receiving clerks
Stock and inventory clerks
Other material recording, scheduling, and distributing clerks
Adjusters and investigators
Data-entry keyers
Other administrative support occupations

Service occupations

Private household occupations
Protective service occupations
Guards
Other protective service occupations
Service occupations, except protective and household
Food preparation and service occupation
Health service occupations
Cleaning and building service occupations, except household
Personal service occupations

Farming, forestry, and fishing occupations

Precision production, craft, and repair occupations

Mechanics and repairers
Supervisors, mechanics and repairers
Automobile mechanics, including body
Industrial machinery repairers
Electronic repairers, communications and industrial equipment
Heating, air conditioning, and refrigeration mechanics
Other mechanics and repairers
Construction trades
Supervisors, construction occupations
Carpenters
Electricians
Painters, construction and maintenance
Plumbers, pipefitters, and steamfitters
Other construction trades

¹Persons of Spanish origin may be of any race.

Total				White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Both sexes				Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
629 332	552 514	76 818	522 434	71 600	16 292	3 155	21 946	3 040	37.4	31.2	77.2	71.8	9.6	4.3	19.4	8.6			
210 387	194 105	16 282	184 274	15 362	543	6 385	528	41.1	38.9	73.5	71.0	10.2	5.4	39.7	28.5				
127 347	116 508	10 859	110 281	10 285	3 378	3 765	342	37.2	34.3	77.7	73.3	12.0	5.8	99.2	85.4				
83 020	77 597	5 423	73 993	5 077	1 926	2 209	186	46.3	47.3	87.3	86.3	25.1	17.7	11.3	11.3				
954	934	265	669	254	5	6	8	45.0	37.0	83.3	93.6	28.9	9.3	8.7	3.3				
181	173	8	168	8	—	—	—	42.8	25	86.1	—	26.6	3.3	1.9	1.6				
417 541	357 320	60 221	337 110	55 934	10 974	15 555	2 504	34.5	32.9	79.2	71.9	9.3	4.0	16.7	5.7				
49 473	13 911	35 562	12 263	32 598	810	1 857	875	35.4	32.0	79.9	80.2	11.1	2.8	1.7	0.2				
368 068	343 409	24 659	324 847	23 336	10 164	14 680	976	38.2	34.5	71.4	81.0	13.7	6.8	16.7	5.7				
269	227	42	213	42	—	—	—	—	—	—	—	—	—	—	—				
208 802	35 266	173 536	32 423	166 648	1 801	1 757	5 066	32.9	34.5	77.3	86.0	11.2	4.2	2.1	3.2				
5 665	2 710	2 955	2 524	2 845	101	107	67	38.2	30.7	77.3	86.0	11.2	4.2	2.1	3.2				
4 733	898	3 835	766	3 656	186	50	123	30.6	27.6	73.5	71.0	10.2	5.4	39.7	28.5				
42 853	685	42 168	641	40 287	31	1 032	31	47.3	47.3	87.3	87.3	25.1	17.7	11.3	11.3				
39 365	593	38 772	549	37 176	881	31	1 241	46.1	46.1	87.3	87.3	25.1	17.7	11.3	11.3				
3 488	92	3 396	92	3 111	151	—	—	65.4	65.4	87.3	87.3	25.1	17.7	11.3	11.3				
4 696	162	4 534	162	4 334	10	—	—	32.2	32.2	85.4	85.4	3.1	4.5	—	—				
1 186	289	897	267	836	22	39	19	21	21	82.5	82.5	11.1	2.8	1.7	0.2				
2 502	135	2 367	122	2 201	11	108	116	33.6	37.2	79.2	82.5	11.1	2.8	1.7	0.2				
3 895	2 201	1 694	1 954	1 534	125	216	108	28.5	29.7	49.2	53.2	3.7	1.8	—	—				
82 151	5 288	76 863	5 124	74 829	67	783	133	38.4	38.4	87.3	87.3	18.8	4.6	5.1	5.2				
1 613	89	1 524	83	1 480	13	61	72	44.6	44.6	87.3	87.3	18.8	4.6	5.1	5.2				
3 237	376	2 861	324	2 861	6	19	105	32.5	32.5	87.3	87.3	18.8	4.6	5.1	5.2				
3 030	58	2 972	2 861	2 861	6	19	105	32.5	32.5	87.3	87.3	18.8	4.6	5.1	5.2				
2 170	1 573	597	1 254	759	169	73	23	27.0	27.0	43.1	68.0	14.6	1.5	2.1	0.3				
2 412	1 545	867	1 254	759	169	73	23	27.0	27.0	43.1	68.0	14.6	1.5	2.1	0.3				
3 452	2 697	505	2 597	766	80	79	76	29	34.0	25	56.3	77.2	2.4	1.3	0.8	0.5			
9 110	5 992	3 418	3 212	417	253	37	232	58	33.3	32.9	72.9	86.0	5.7	7.5	2.5	2.5			
2 324	2 324	406	2 597	417	253	37	232	58	33.3	32.9	72.9	86.0	5.7	7.5	2.5	2.5			
2 930	2 930	406	2 597	417	253	37	232	58	33.3	32.9	72.9	86.0	5.7	7.5	2.5	2.5			
3 757	2 324	1 636	2 597	417	253	37	232	58	33.3	32.9	72.9	86.0	5.7	7.5	2.5	2.5			
3 360	850	2 510	1 636	2 597	417	253	37	232	58	33.3	32.9	72.9	86.0	5.7	7.5	2.5	2.5		
26 090	5 325	20 725	4 973	19 806	166	445	288	33.0	34.6	77.4	82.7	12.1	2.0	10.8	0.4				
23 912	18 637	5 275	13 921	3 949	3 952	1 168	1 422	240	33.6	37.7	37.2	46.3	1.6	1.8	1.1	1.9			
1 521	1 460	61	1 159	43	217	12	180	—	55.6	34.4	50.1	88.5	2.7	—	0.6	—			
1 389	1 389	61	1 092	43	217	12	180	—	55.6	34.4	50.1	88.5	2.7	—	0.6	—			
71	71	—	67	26	—	—	—	—	34.2	80.3	70.0	—	—	—	—	—			
22 391	17 177	5 214	12 762	3 906	3 735	1 156	1 242	240	31.9	37.7	36.1	45.8	1.5	1.8	—	1.9			
3 327	898	2 429	719	2 002	156	403	43	61	25	33.8	55.7	46.0	3.7	1.6	0.4	1.3			
94	15	79	15	79	—	—	—	—	25	34.0	46.7	92.4	—	—	—	—			
18 561	16 100	2 461	11 871	1 617	3 572	731	1 199	179	33.1	42.4	34.7	41.9	1.4	2.3	1.0	2.6			
409	164	245	157	208	7	22	—	—	25	33.6	64.6	67.8	—	—	17.1	0.8			
556	508	48	366	48	69	—	94	27.3	25	45.5	45.8	8.7	10.4	3.5	16.7				
471 814	465 420	6 394	427 652	5 756	22 297	498	22 450	184	31.9	32.1	66.9	74.5	2.4	3.5	5.4	5.3			
434 234	432 461	3 773	377 235	3 261	20 797	401	20 806	121	31.6	29.5	66.9	74.5	2.4	3.5	5.4	5.3			
34 783	34 215	568	33 456	538	30	30	578	7	38.6	31.8	78.1	83.0	5.1	2.1	1.8	1.8			
366 937	364 117	2 890	362 544	2 385	18 568	331	18 677	114	31.2	28.6	65.5	68.8	1.7	2.6	5.9	3.8			
3 083	3 060	23	2 731	23	269	—	93	—	33.0	32.0	61.5	63.2	3.3	—	—	8.7			
906	906	—	854	—	47	—	46	—	31.1	78.9	—	—	—	—	—	—			
669	669	20	640	—	17	—	—	—	38.6	66.5	—	—	—	—	—	—			
29 836	29 494	342	27 120	315	1 527	20	1 400	—	28.5	29.9	66.1	69.3	2.2	5.0	1.9	2.3			
4 058	3 910	148	3 528	140	251	8	322	6	33.4	32.9	60.9	71.6	2.4	10.1	6.7	—			
459	430	29	371	29	55	—	4	6	41.3	33.3	67.7	75.9	8.1	31.0	2.8	—			
1 110	1 072	38	1 000	38	58	—	45	—	34.7	35.4	59.1	52.6	2.3	15.8	6.9	—			
566	551	15	525	15	—	—	—	—	25	37.1	75.6	100.0	0.9	9.3	5.2	—			
1 237	1 208	29	1 041	21	98	8	205	—	30.0	37.1	57.6	100.0	0.3	—	—	—			
353	334	19	294	19	33	—	14	—	47.2	37.1	53.6	63.2	1.8	—	8.7	—			
333	315	18	297	18	—	—	23	—	32.2	45.0	33.7	44.4	1.0	—	10.2	—			

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see appendix A.]

Automotive dealers and gasoline stations																		
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female				
	Male	Female	Male	Female	Male	Female												
Employed persons 16 years and over—Con.																		
Precision production, craft, and repair occupations—Con.																		
Extraction occupations																		
31 445	28 972	2 473	77	26 792	2 355	—	89	—	32.8	36.3	—	—	63.6	80.1	29.9	4.2	3.9	8.5
17 774	16 429	1 345	71	15 252	1 268	7	71	57	37.1	41.4	—	—	73.6	80.1	8.1	4.2	5.6	8.4
3 985	3 932	53	34	3 778	34	—	4	4	31.5	31.9	—	—	67.7	58.5	2.3	4.8	2.7	11.8
65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3 647	3 605	42	23	3 387	23	7	7	4	31.3	28.9	—	—	84.6	61.9	2.3	—	2.2	—
105	105	—	—	—	—	—	—	—	32.5	—	—	—	72.4	45.8	—	—	4.8	—
168	157	11	11	135	11	—	—	—	31.0	50.0	—	—	52.9	45.5	4.5	—	11.5	—
711	575	136	47	447	125	72	—	7	34.6	37.1	—	—	53.7	45.6	2.0	3.7	9.6	14.0
147	98	49	8	86	49	—	—	—	32.9	34.7	—	—	55.1	55.1	2.0	—	2.0	—
7 736	6 942	794	6 434	783	255	11	11	29	32.5	28.9	—	—	79.6	89.4	8.6	4.2	3.9	0.6
691	32	32	32	626	32	—	—	—	32.1	37.9	—	—	60.1	75.0	8.6	—	21.9	—
401	337	64	20	269	64	—	—	9	27.1	42.8	—	—	66.5	60.9	—	—	1.5	32.8
Operators, fabricators, and laborers																		
390 196	359 159	31 037	311 765	28 000	32 836	1 982	21 493	1 321	25	26.0	—	—	46.2	58.6	1.7	1.7	3.4	4.8
23 125	21 623	1 502	17 721	1 181	2 637	274	2 849	83	29.7	33.7	—	—	55.0	56.7	1.5	2.3	2.8	0.8
16 100	15 208	892	12 244	745	2 005	118	1 849	49	30.1	35.0	—	—	54.5	56.2	1.0	1.2	2.2	0.9
723	684	39	461	39	139	—	112	—	30.7	46.1	—	—	51.9	82.1	0.9	—	1.2	—
15	—	—	15	—	—	—	—	—	25	—	—	—	46.7	—	—	—	—	—
Metal and plastic processing and woodworking machine operators																		
270	260	10	203	10	51	—	—	—	29.9	48.8	—	—	46.5	20.0	—	—	—	—
124	79	45	71	36	8	—	9	—	25.4	33.2	—	—	74.7	84.4	—	—	—	—
69	46	23	24	14	22	—	6	—	31.4	52.8	—	—	52.2	73.9	—	—	—	—
92	25	67	16	50	9	—	5	—	38.8	37.5	—	—	24.0	68.7	—	—	44.0	—
Laundry and dry cleaning machine operators																		
48	12	36	12	4	—	—	—	—	25	50.0	—	—	100.0	30.6	—	—	—	—
62	46	16	41	16	5	—	—	—	37.0	40.0	—	—	63.0	—	—	—	—	—
97	97	—	72	—	25	—	—	—	46.0	—	—	—	59.8	—	—	—	—	—
9 992	9 781	211	8 265	200	856	5	1 402	19	29.6	27.4	—	—	56.7	61.6	1.2	2.5	2.2	3.8
4 608	4 163	445	3 064	376	890	55	317	24	31.4	38.6	—	—	49.8	50.6	0.8	—	2.5	—
Fabricators, assemblers, and hand working occupations																		
6 146	5 648	498	4 848	361	521	119	455	34	28.0	31.1	—	—	54.4	59.6	2.6	4.0	4.3	0.8
1 590	71	71	1 307	50	115	—	148	—	31.4	25	—	—	58.0	52.1	3.0	—	3.6	—
23	23	7	—	—	—	—	—	—	39.2	—	—	—	52.2	—	—	—	—	—
4 365	3 982	383	3 413	275	402	90	284	27	26.1	32.8	—	—	52.9	59.5	2.6	5.0	4.2	1.0
168	124	44	105	36	4	—	16	—	32.3	28.3	—	—	61.3	72.7	2.3	2.3	19.4	—
879	767	112	629	75	111	37	56	—	33.6	38.1	—	—	68.2	48.2	3.3	3.6	3.5	—
56	38	18	38	18	—	—	—	—	25	28.3	—	—	68.4	27.8	—	—	—	—
Other production inspectors, testers, samplers, and weighers																		
823	729	94	591	57	111	37	—	—	34.2	39.4	—	—	68.2	52.1	3.4	4.3	3.7	—
Transportation and material moving occupations																		
48 614	44 106	4 508	38 373	4 157	4 493	224	2 217	161	30.8	25	—	—	57.2	67.5	1.9	1.4	2.4	1.5
46 484	42 135	4 349	36 707	4 074	4 262	177	2 112	152	30.9	25	—	—	57.4	67.3	1.9	1.2	2.3	1.0
46 239	41 904	4 335	36 520	4 060	4 224	177	2 112	152	30.9	25	—	—	57.4	67.3	1.9	1.2	2.2	1.0
39 425	36 004	3 421	31 712	3 215	3 483	114	1 492	134	31.4	25	—	—	57.7	67.5	1.7	0.8	2.4	1.1
1 206	1 137	69	1 041	55	59	—	73	—	32.1	29.2	—	—	78.4	66.7	6.7	0.8	3.3	10.1
5 608	4 763	845	3 767	790	682	49	547	18	25	26.6	—	—	49.5	66.6	2.3	3.3	0.9	—
2 130	1 971	137	1 666	83	231	47	100	9	34.0	25.0	—	—	55.0	50.0	6.9	5.2	5.2	—
21	21	37	1 666	83	231	47	100	9	33.0	29.6	—	—	53.8	74.2	1.1	5.0	5.2	14.5
443	403	—	391	26	8	—	12	—	30.0	42.6	—	—	71.4	57.5	2.3	16.2	16.2	—
1 411	1 329	82	1 053	39	223	34	82	9	29	25	—	—	46.7	70.7	4.2	2.4	11.4	42.5
318 457	293 430	25 027	255 671	22 662	25 706	1 484	17 116	1 077	25	26.2	—	—	43.9	57.1	1.7	1.8	3.6	5.7
Handlers, equipment cleaners, helpers, and laborers																		
59	54	5	54	5	—	—	—	—	50.7	30.0	—	—	33.3	100.0	9.3	—	1.5	—
5 063	4 832	231	3 745	172	844	45	407	29	25	33.9	—	—	42.3	56.3	1.9	—	—	9.1
224	224	—	164	52	52	—	8	—	31.5	—	—	—	49.1	—	—	—	—	—
6 308	5 712	596	4 782	540	638	20	416	57	25	—	—	—	44.6	56.2	0.6	3.7	0.7	3.5
Garage and service station occupations, and equipment cleaners																		
288 892	266 473	22 419	233 445	20 489	22 097	1 181	15 286	834	25	25.9	—	—	43.7	57.3	1.7	1.7	3.7	5.9
1 047	594	355	472	355	90	78	53	18	25	25	—	—	56.6	50.1	—	—	1.7	2.6
16 864	15 541	1 323	13 009	1 101	1 985	160	946	139	25	27.8	—	—	46.5	56.5	2.3	2.8	3.3	3.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female	Male	Female										
Employed persons 16 years and over																
Both sexes	895 516	270 590	624 926	236 116	563 550	21 597	39 067	19 761	32 161	32.3	76.3	71.9	17.1	7.3	9.6	5.3
Managerial and professional specialty occupations	107 251	49 262	57 989	45 325	54 048	2 025	2 273	2 335	1 910	36.0	91.9	88.9	31.7	19.2	7.9	7.9
Executive, administrative, and managerial occupations	98 727	46 064	52 663	42 477	49 353	1 803	1 907	2 105	1 712	35.8	92.3	89.0	31.9	18.8	7.8	8.0
Offices and administrators, public administration	4	4	4	4	4	—	—	—	—	30.0	100.0	87.4	—	—	—	—
Financial managers	2 641	1 221	1 420	1 176	1 318	27	89	38	52	38.9	96.1	87.4	63.0	6.2	1.1	—
Managers, marketing, advertising, and public relations	19 601	9 276	10 325	8 388	9 710	531	322	484	326	33.3	93.3	88.7	24.1	15.7	6.1	6.9
Administrators, education and related fields	59	29	30	29	30	—	—	—	—	51.1	100.0	70.0	48.3	20.0	27.6	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specialized managers	4 327	2 149	2 178	1 991	1 997	89	76	128	115	34.3	90.4	89.3	29.2	25.2	4.8	4.1
Managers and administrators, n.e.c.	51 826	25 710	26 116	23 689	24 519	957	897	1 134	942	37.7	91.0	86.9	27.7	14.9	9.9	11.3
Managers and administrators, n.e.c.	45 903	23 107	22 796	21 271	21 486	912	850	1 036	772	36.0	92.0	87.4	30.2	14.6	7.0	—
Self-employed	5 923	2 603	3 320	2 418	3 033	45	47	98	70	49.6	82.2	82.8	25.0	16.4	97.7	88.9
Management related occupations	20 269	7 675	12 594	7 200	11 779	199	523	321	377	34.8	95.5	93.9	44.6	29.8	4.9	3.7
Accountants and auditors	3 156	1 536	1 620	1 344	1 415	43	111	76	119	35.0	97.6	95.0	60.0	26.4	3.0	2.2
Personnel, training, and labor relations specialists	1 425	482	943	441	857	26	56	10	26	33.4	97.9	87.3	34.2	27.1	1.7	2.3
Buyers and purchasing agents	15 182	5 413	9 769	5 185	9 270	124	345	220	232	34.9	94.5	94.4	39.7	30.1	5.7	3.7
Inspectors and compliance officers	38	7	31	7	26	—	—	—	—	30.0	100.0	96.8	100.0	—	—	—
Other management related occupations	468	237	231	223	211	6	6	15	—	34.4	99.2	92.6	75.5	27.3	5.9	17.7
Professional specialty occupations	8 524	3 198	5 326	2 848	4 695	222	366	230	198	38.3	85.8	88.1	27.8	22.9	9.3	7.1
Engineers, architects, and surveyors	286	253	33	200	27	—	—	18	—	34.9	96.4	100.0	43.9	36.4	3.6	6.1
Architects	107	99	8	72	6	14	—	5	—	37.5	100.0	100.0	57.6	—	9.1	—
Engineers	179	154	25	128	19	13	—	13	—	34.0	94.2	100.0	28.6	48.0	—	—
Civil engineers	21	21	—	8	—	—	—	—	—	65.4	100.0	—	—	—	—	—
Electrical and electronic engineers	7	—	—	—	—	—	—	—	—	30.0	100.0	100.0	41.4	—	—	—
Industrial engineers	71	58	13	58	13	—	—	7	—	37.9	100.0	100.0	—	—	—	—
Mechanical engineers	17	17	—	17	—	—	—	—	—	30.0	100.0	100.0	—	—	—	—
Other engineers	63	51	12	38	6	—	—	6	—	32.9	96.1	100.0	47.1	100.0	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	292	191	101	180	94	11	—	—	—	37.8	100.0	100.0	52.9	56.4	—	13.9
Operations and systems researchers and analysts	87	67	20	59	40	—	—	—	—	37.6	88.1	100.0	58.2	90.0	—	—
Mathematical scientists	54	24	10	24	10	—	—	—	—	39.6	100.0	100.0	54.2	14.8	—	—
Natural scientists	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chemists, except biochemists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other natural scientists	34	24	10	24	10	—	—	—	—	39.6	100.0	100.0	54.2	—	—	—
Health diagnosing occupations	43	31	12	31	12	—	—	—	—	63.2	100.0	100.0	61.3	50.0	—	—
Health assessment and treating occupations	169	89	80	80	74	—	—	7	—	33.2	100.0	92.5	85.4	45.0	—	—
Registered nurses	35	—	—	—	29	—	—	—	—	45.5	100.0	100.0	37.1	37.1	—	—
Other health assessment and treating occupations	134	89	45	80	45	—	—	—	—	33.2	100.0	86.7	85.4	86.7	—	—
Teachers, except postsecondary	166	31	135	15	113	9	15	—	7	34.3	77.4	94.8	22.6	27.4	25.8	11.1
Social scientists and urban planners	136	63	73	63	53	8	—	—	10	39.0	100.0	86.3	77.8	38.4	11.1	—
Social and recreation workers	38	16	22	14	22	2	—	—	—	65.4	47.0	40.9	—	—	—	—
Lawyers and judges	84	47	17	67	24	—	3	—	—	34.6	34.4	100.0	100.0	100.0	12.5	—
Writers, artists, entertainers, and athletes	7 035	2 319	4 716	2 075	4 176	166	326	212	174	39.2	92.4	87.9	17.3	20.8	11.7	7.4
Other professional specialty occupations	100	47	53	40	53	7	—	—	—	29.5	57.4	66.0	14.9	9.4	—	—
Technical, sales, and administrative support occupations	693 586	178 808	514 778	156 597	468 382	14 062	30 108	12 886	25 029	30.7	78.4	71.6	15.9	6.2	10.5	5.0
Technicians and related support occupations	1 101	764	337	671	278	21	45	—	27	32.2	90.8	93.8	29.8	15.1	—	8.0
Health technicians and technicians	24	5	19	5	13	—	—	—	12	30.0	100.0	100.0	—	—	—	36.8
Licensed practical nurses	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other health technicians and technicians	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and science technicians	262	143	119	130	85	13	34	—	7	47.0	74.8	100.0	14.7	5.0	—	—
Electrical and electronic technicians	63	40	23	35	13	5	10	—	—	49.2	40.0	100.0	—	—	—	—
Industrial and mechanical engineering technicians	26	13	13	13	13	—	—	—	—	25.7	50.0	100.0	53.8	—	—	—
Drafting and surveying technicians	124	69	53	61	50	8	13	—	—	45.6	91.3	100.0	20.3	10.9	—	—
Other engineering and science technicians	49	21	28	21	22	—	6	—	7	50.8	33.3	100.0	—	—	—	—
Technicians, except health, engineering, and science	815	616	199	536	180	8	11	—	8	31.4	94.5	89.4	33.6	22.6	—	10.1
Airplane pilots and navigators	2	2	—	2	—	—	—	—	—	30.0	100.0	—	100.0	—	—	—
Air traffic controllers and broadcast equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer programmers	632	499	133	423	119	8	6	—	8	30.7	98.8	97.7	32.3	28.6	—	4.5
Other technicians, except health, engineering, and science	181	115	66	111	61	—	5	—	—	42.9	75.7	72.7	38.3	10.6	—	21.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																		
Apparel and accessory stores																		
Total			Race		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
608 539	163 142	445 397	144 218	407 916	11 790	23 623	11 383	21 666	31.0	32.4	79.0	70.0	16.3	10.5	11.3	5.6		
115 331	53 556	61 775	48 854	57 898	2 531	2 091	2 543	2 494	36.4	35.1	90.0	83.7	28.3	26.3	20.9	22.1		
89 463	42 211	47 252	38 468	44 750	2 243	1 789	2 543	2 006	33.7	32.1	91.6	86.5	15.4	15.4	98.7	92.9		
25 868	11 345	14 523	10 386	13 648	8 288	3 022	484	562	48.0	45.2	87.9	80.9	28.6	26.6	10.0	3.6		
12	7	5	7	5	—	—	6	42	32.2	32.2	100.0	100.0	41.1	41.1	—	—		
491 065	109 261	381 804	95 077	348 276	9 227	21 494	8 350	19 089	26.6	31.4	73.6	61.5	11.3	11.3	6.6	2.9		
35 543	1 521	34 022	1 179	29 006	189	3 248	188	2 668	25	25	73.7	67.6	3.5	2.7	0.9	0.4		
455 522	107 740	347 782	93 898	319 270	9 038	18 246	8 162	16 421	26.7	32.8	70.0	67.6	11.4	11.4	6.7	3.1		
1 268	87	1 181	63	1 147	24	15	—	41	25	44.4	94.3	80.6	13.8	5.7	9.2	6.7		
83 946	14 902	69 044	11 708	60 188	2 251	6 440	1 503	3 336	27.0	34.9	70.6	81.7	10.5	6.0	2.1	1.4		
5 100	1 523	3 577	1 310	3 277	157	197	103	246	35.2	35.5	83.5	87.2	26.3	7.3	4.0	1.7		
1 376	446	930	385	773	41	112	26	51	26.3	28.1	91.5	89.8	7.0	4.7	—	—		
8 508	169	8 339	127	7 561	42	281	25	441	36.4	32.4	88.8	91.5	33.7	6.5	3.6	1.3		
7 481	125	7 356	101	6 779	24	361	17	374	36.4	32.7	94.4	92.5	32.8	7.0	4.8	1.3		
1 027	44	983	26	6 782	18	158	8	67	36.3	32.7	72.7	84.0	36.4	2.6	—	—		
1 055	14	1 041	14	898	19	90	6	24	50.0	27.3	50.0	78.0	—	—	—	—		
1 137	118	1 019	95	902	19	89	6	42	28.8	30.3	87.8	79.7	12.7	4.2	—	—		
2 515	427	2 088	280	1 667	96	329	96	124	28.9	32.3	70.0	74.8	12.9	4.0	1.6	0.6		
23 568	1 552	22 016	1 419	20 642	51	822	99	601	51.2	39.5	89.0	89.0	22.8	8.1	10.1	2.5		
1 905	78	1 827	145	1 717	32	97	84	25	32.1	32.1	91.0	82.7	12.8	5.4	—	—		
1 738	243	1 495	181	1 312	182	104	29	168	29.3	34.8	60.9	71.7	14.0	3.6	2.9	0.6		
803	—	803	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1 149	561	1 588	383	1 205	114	82	58	50	27.6	33.0	71.7	60.7	8.6	3.1	—	—		
2 118	235	1 883	182	1 501	21	285	32	253	46.1	36.1	80.0	73.5	5.1	5.7	4.7	0.5		
6 725	3 223	3 502	2 421	3 073	586	782	405	192	26.3	36.7	67.8	70.4	3.1	1.9	0.4	0.3		
8 918	4 232	4 686	3 183	3 503	791	642	419	205	25	29.8	54.1	67.2	4.4	4.8	0.1	0.7		
2 429	358	2 071	243	1 828	95	454	75	223	36.3	39.8	70.9	62.3	1.4	2.2	—	—		
1 605	290	1 315	245	1 068	35	235	15	150	28.9	30.9	86.5	82.3	26.6	6.5	2.1	0.3		
1 528	89	1 439	75	1 364	7	252	15	112	28.9	29.7	86.5	84.7	3.4	3.8	—	—		
12 078	1 273	10 805	1 068	9 476	150	959	88	485	30.4	34.4	78.6	76.3	14.4	5.6	3.5	1.0		
12 560	7 273	5 287	5 180	3 627	1 643	1 366	601	380	32.8	38.3	44.7	56.0	4.5	4.8	1.0	3.1		
2 441	1 272	1 169	977	980	231	140	108	48	34.1	31.3	71.3	63.6	11.6	5.8	—	—		
2 362	1 225	1 137	930	948	231	140	108	48	34.3	31.1	70.2	62.5	10.8	6.0	—	—		
79	47	32	47	32	—	—	—	—	32.6	35.6	100.0	100.0	34.0	—	—	—		
10 119	6 001	4 118	4 203	2 647	1 412	1 226	493	332	32.3	40.1	39.0	53.8	3.0	4.5	1.2	4.0		
877	177	700	140	487	14	175	25	31	25.4	40.0	45.2	49.6	14.7	3.1	—	—		
18	18	18	—	12	—	—	—	—	—	—	—	—	—	—	—	—		
7 544	5 578	1 966	3 857	985	1 364	880	454	154	32.4	46.1	37.5	37.7	2.3	1.4	0.8	1.3		
1 680	246	1 434	206	1 163	34	165	14	147	36.4	32.6	68.3	78.2	9.8	9.4	11.0	8.9		
95	76	19	76	12	—	7	—	6	39.3	37.3	61.8	94.7	—	—	—	31.6		
49 328	17 833	31 495	15 148	25 628	1 320	2 988	2 099	3 190	46.7	49.0	55.7	56.6	8.4	4.9	16.4	7.6		
1 501	318	1 183	1 099	146	84	—	110	9	34.6	38.6	46.8	72.1	6.6	6.6	4.9	16.9		
306	209	97	178	69	6	—	38	69	43.7	50.2	75.1	75.3	16.3	12.4	10.5	32.0		
344	332	12	320	12	—	—	15	—	28.7	25	49.7	75.0	2.1	—	3.0	—		
174	158	16	119	7	26	—	7	9	46.1	26.1	65.2	—	4.4	—	8.2	—		
56	50	6	50	6	—	—	—	—	32.1	60.0	90.0	—	20.0	—	—	—		
58	58	—	38	52	8	—	—	—	33.9	—	100.0	—	—	—	—	—		
563	511	52	394	52	44	—	50	—	34.0	36.4	56.8	96.2	6.5	—	3.7	—		
867	788	79	701	72	45	—	66	—	34.4	34.8	67.0	64.6	6.2	—	6.2	—		
58	50	8	45	8	5	—	—	—	50.4	25	88.0	—	—	—	—	—		
392	377	15	345	15	—	—	37	—	39.5	34.4	65.3	100.0	4.5	—	5.8	—		
77	70	7	61	7	7	—	—	—	30.9	60.0	92.9	—	17.1	—	—	—		
166	140	26	127	26	8	—	6	—	29.5	28.1	40.0	69.2	14.3	—	5.7	—		
33	33	23	25	25	8	—	—	—	46.7	60.0	36.4	—	—	—	—	—		
141	118	23	98	16	20	—	23	—	26.5	60.0	45.3	78.3	—	—	16.1	—		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Apparel and accessory stores																		
Employed persons 16 years and over—Con.																		
	Total		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self employed			
	Both sexes	Male	Female	White	Black	Other	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Precision production, craft, and repair occupations—Con.																		
Extraction occupations	46 960	15 727	31 233	13 348	25 410	1 191	2 988	1 923	3 181	48.0	49.1	54.1	56.5	8.7	4.9	17.9	7.6	
Precision production occupations	9 221	4 643	4 578	3 295	3 920	286	445	303	331	38.9	38.9	38.9	38.9	19.2	10.9	17.9	5.9	
Supervisors, production occupations	254	157	97	131	84	9	8	11	35	42.4	36.8	59.2	37.1	8.9	6.2	—	—	
Precision metalworking occupations	112	79	33	63	28	9	—	5	18	40.8	40.0	49.4	—	—	—	—	—	
Tool and die makers	112	79	33	63	28	9	—	5	18	40.8	40.0	49.4	—	—	—	—	—	
Sheet metal workers	135	71	64	61	56	—	—	8	17	42.7	31.4	76.1	56.2	19.7	9.4	—	—	
Other precision metal workers	37 132	10 638	26 494	8 787	21 346	864	2 521	1 577	2 805	51.5	50.6	40.8	52.3	15.6	13.4	23.7	7.9	
Precision textile, apparel, and furnishings machine workers	84	45	39	45	39	—	—	20	—	39.2	58.5	60.0	66.7	—	—	—	—	
Precision inspectors, testers, and related workers	63	58	5	51	5	7	—	—	—	48.8	50.0	53.4	100.0	—	—	—	—	
Plant and system operators	202	166	36	120	16	25	14	12	10	36.6	39.6	72.9	83.3	—	—	7.8	13.9	
Other precision production occupations	32 496	17 338	15 158	13 790	11 853	2 547	2 325	1 840	1 646	25—	37.6	45.1	52.0	2.0	2.1	1.6	1.7	
Machine operators, assemblers, and inspectors	11 211	2 887	7 124	1 049	6 271	562	1 316	526	1 071	38.1	44.9	46.3	50.9	1.2	2.2	6.4	2.6	
Machine operators and tenders, except precision	9 509	2 368	7 141	1 072	6 069	475	1 067	432	925	39.2	45.7	45.4	50.2	1.2	1.9	7.2	3.1	
Metalworking and plastic working machine operators	62	—	62	—	—	—	19	5	6	58.0	52.9	28.6	43.5	—	—	—	—	
Machine operators, n.e.c.	246	110	136	51	86	44	35	36	20	93.5	41.5	38.2	49.3	—	—	—	—	
Printing machine operators	501	219	282	174	280	18	8	36	23	25—	25—	80.3	66.7	—	—	1.7	5.1	
Textile machine operators	185	142	43	125	37	17	6	78	595	46.7	34.1	45.1	100.0	—	—	2.8	5.9	
Textile sewing machine operators	4 485	322	4 163	3 197	79	79	494	78	595	46.9	48.3	27.6	49.4	—	—	1.8	3.7	
Laundry and dry cleaning machine operators	149	14	135	14	92	15	31	—	20	40.0	54.8	50.0	41.5	—	—	50.0	—	
Packaging and filling machine operators	121	26	95	11	84	4	11	—	6	31.2	45.2	76.9	48.4	—	—	—	—	
Food, kindred, and allied product workers, except food	27	11	16	7	16	4	—	—	—	47.1	37.0	100.0	46.5	—	—	3.2	1.0	
Other specified machine operators	1 834	854	980	607	675	143	245	180	92	44.9	44.9	38.8	46.5	—	—	3.1	2.4	
Miscellaneous and not specified machine operators	1 857	869	1 188	458	871	155	218	97	163	35.9	42.0	32.0	51.9	4.3	1.5	8.7	2.4	
Fabricators, assemblers, and hand working occupations	802	387	415	302	319	73	69	39	50	36.0	31.5	50.4	56.1	1.6	7.2	2.3	0.5	
Welders and cutters	64	56	8	40	8	11	—	—	—	35.9	30.0	78.6	100.0	—	—	—	—	
Solders and brazers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Assemblers	488	212	276	145	195	55	60	31	37	38.6	40.0	46.7	67.4	2.8	10.9	3.3	—	
Hand working occupations	250	119	131	112	116	7	7	8	13	31.0	25—	43.7	29.8	—	—	1.7	1.5	
Production inspectors, testers, samplers, and weighers	905	132	773	75	536	14	180	53	96	33.3	39.4	51.5	54.7	—	—	4.5	—	
Graders and sorters, except agricultural	314	66	248	52	134	5	84	15	29	34.1	39.1	34.8	54.4	—	—	—	—	
Other production inspectors, testers, samplers, and weighers	591	66	525	23	402	9	96	40	67	33.0	39.7	68.2	54.9	—	—	9.1	—	
Transportation and material moving occupations	3 797	3 447	350	2 624	265	646	75	352	10	30.0	32.1	43.9	70.0	—	—	—	—	
Transportation occupations	3 125	2 904	221	2 216	170	530	47	285	10	30.3	31.4	43.9	70.0	2.6	7.1	1.1	0.6	
Motor vehicle operators	3 119	2 898	221	2 216	170	530	47	285	10	30.3	31.4	43.9	70.0	2.6	7.1	1.1	0.6	
Truck drivers	2 537	2 400	137	1 750	97	506	40	219	—	29.7	32.3	63.3	48.0	2.1	11.3	1.2	0.9	
Driver-sales workers	367	293	74	288	67	5	7	4	—	33.0	29.9	68.6	66.6	2.1	13.9	0.9	1.5	
Other motor vehicle operators	215	205	10	172	6	19	—	62	10	38.4	65+	78.5	94.6	2.0	8.1	2.7	—	
Rail and water transportation occupations	6	6	—	6	6	—	—	—	—	30.0	45+	46.8	2.0	2.0	2.0	—	—	
Material moving occupations	672	543	129	408	95	116	28	67	—	30.0	33.2	44.6	62.8	5.7	—	0.9	—	
Supervisors, material moving equipment operators	47	41	6	21	6	16	—	—	—	47.8	65+	85.4	100.0	14.6	—	—	—	
Crane, hoist and winch operators	12	12	—	5	—	—	—	—	—	30.0	—	100.0	100.0	—	—	—	—	
Excavating, grading, and dozer machine operators	5	5	—	5	—	—	—	—	—	50.0	—	100.0	100.0	—	—	—	—	
Other material moving equipment operators	608	485	123	376	89	100	28	67	—	26.6	32.5	61.6	61.0	100.0	—	100.0	—	
Handers, equipment cleaners, helpers, and laborers	17 683	11 004	6 679	9 117	5 317	1 339	934	962	565	25—	28.3	38.9	52.4	2.1	1.8	0.5	0.6	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	30	6	24	6	24	—	—	—	—	60.0	30.0	100.0	70.8	—	—	—	—	
Helpers, craft and production	130	58	72	47	44	6	7	—	—	36.5	41.8	60.3	58.3	100.0	41.7	10.3	9.7	
Construction laborers	91	74	17	70	17	4	—	—	—	32.7	27.3	73.0	29.4	8.6	6.9	—	—	
Freight, stock, and material handlers	11 819	8 149	3 670	6 931	2 987	888	522	614	251	25—	25—	32.8	53.1	1.7	1.8	0.1	0.3	
Garage and service station occupations, and equipment cleaners	267	223	44	139	31	70	13	28	—	25—	43.0	52.5	65.9	2.2	—	—	—	
Hand packers and packagers	1 874	485	1 389	326	1 022	76	186	119	245	31.5	38.2	41.9	48.5	1.2	2.0	—	0.4	
Laborers, except construction	3 472	2 009	1 463	1 598	1 192	295	206	201	69	25.2	31.8	59.4	53.6	2.8	0.8	1.9	1.0	
Persons of Spanish origin may be of any race.																		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States																
Employed persons 16 years and over																
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total			White			Black			Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
4 181 272	1 689 520	2 491 752	1 383 943	2 178 203	146 602	193 008	160 699	118 787	25—	25.6	55.3	56.5	8.3	3.5	8.1	3.5
583 345	377 556	205 809	333 495	183 143	19 296	11 447	21 620	9 439	33.6	34.4	82.5	74.9	19.8	9.0	22.2	21.2
557 182	360 473	196 709	318 774	175 086	17 981	10 883	20 142	9 093	33.8	34.9	82.5	74.8	19.7	8.5	22.3	21.7
1 587	1 000	587	919	516	7	10	45	5	25	30.0	36.4	100.0	61.0	36.4	36.4	31
5 219	4 111	1 108	3 902	1 020	27	42	184	52	34.2	36.6	96.8	91.8	28.1	17.5	2.1	3.1
156	111	45	103	38	8	8	—	8	33.0	30.3	81.1	82.2	18.0	24.4	26.1	10.7
9 259	5 914	3 345	4 848	2 949	581	188	629	255	—	—	—	—	—	—	—	—
524 325	340 518	183 807	301 117	163 709	16 828	10 126	18 819	8 339	31.5	33.6	81.4	77.5	20.8	8.2	11.4	10.7
396 141	259 449	136 692	230 024	122 317	13 734	8 216	14 148	5 699	33.9	35.1	82.2	74.2	19.1	8.0	23.2	22.8
128 184	81 069	47 115	71 093	41 392	3 094	1 910	4 671	2 640	31.4	31.3	85.3	76.5	20.5	7.3	97.4	89.1
16 615	8 808	7 807	7 881	6 844	436	517	465	424	32.1	32.5	87.9	84.5	34.6	17.7	5.7	3.8
5 398	2 455	2 943	2 223	2 587	74	155	92	172	32.9	32.5	96.8	94.4	44.6	30.4	4.2	2.3
7 464	3 848	3 616	3 417	3 123	294	260	209	222	39.0	38.3	83.3	74.0	20.3	6.9	8.3	4.6
2 544	1 660	884	1 490	802	37	46	149	74	38.2	35.0	86.6	84.5	27.6	16.5	6.7	4.2
118	57	61	102	45	16	6	18	6	36.0	27.9	62.7	71.9	8.5	33.3	14.4	6.5
1 034	727	307	649	287	55	20	—	—	34.1	32.0	89.3	92.8	42.9	23.8	12.4	6.5
26 183	17 083	9 100	14 721	8 057	1 315	564	1 478	346	30.5	28.3	82.3	78.5	20.9	21.0	19.8	8.5
736	661	75	619	66	36	—	11	8	35.7	33.0	87.7	82.7	44.9	26.7	1.1	—
240	213	27	187	18	26	—	—	—	35.8	32.2	91.1	88.9	62.0	55.6	—	—
496	448	48	432	48	10	—	11	—	35.5	33.3	86.2	79.2	36.8	10.4	1.6	—
191	175	16	171	16	4	—	—	—	31.7	47.0	92.0	75.0	37.1	—	—	—
37	32	5	32	5	—	—	4	—	25.0	40.0	62.5	100.0	29.0	100.0	—	—
83	62	21	62	21	—	—	—	—	50.8	27.5	75.8	71.4	—	—	—	—
61	61	—	61	—	—	—	—	—	41.8	—	90.2	—	32.8	—	—	—
124	118	6	106	6	6	—	7	—	37.9	30.0	87.3	100.0	52.5	—	5.9	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
269	213	56	213	56	—	—	10	—	34.3	30.9	100.0	100.0	58.7	55.4	—	—
78	72	6	72	6	—	—	—	—	32.7	30.0	100.0	100.0	58.3	100.0	—	—
17	6	11	6	11	—	—	—	—	30.0	50.0	100.0	100.0	100.0	45.5	—	—
159	50	109	50	62	4	—	3	—	38.3	37.2	80.0	54.1	78.0	17.4	—	19.3
46	26	20	26	24	4	—	16	—	38.8	40.5	61.5	75.0	61.5	—	—	—
113	24	89	24	58	—	—	3	—	37.7	35.3	100.0	49.4	95.8	21.3	—	28.6
37	32	5	12	—	—	—	—	—	41.7	40.0	100.0	—	81.3	—	34.4	3.3
956	225	731	198	600	13	104	8	—	38.7	31.3	93.8	88.2	60.0	61.3	12.0	3.3
59	5	54	5	50	—	—	—	—	50.0	38.6	100.0	88.9	33.3	—	22.2	1.8
897	220	677	193	550	13	104	8	—	38.3	30.8	93.6	88.2	61.4	63.5	12.3	—
541	200	341	140	272	42	51	25	11	28.0	28.3	77.0	80.1	32.0	29.9	3.5	2.9
445	232	213	209	213	—	—	3	—	34.1	27.7	97.8	98.6	72.8	50.7	2.6	—
102	16	86	16	51	—	—	6	—	26.1	33.4	100.0	73.3	56.3	19.8	—	—
337	262	75	240	75	22	6	8	—	34.4	31.4	100.0	100.0	96.2	65.3	21.0	8.0
287	194	93	124	65	184	353	1 413	298	30.0	27.7	80.9	77.0	15.6	14.5	21.7	9.8
22 219	14 120	7 99	103	83	8	—	—	—	48.8	38.5	100.0	73.7	50.8	47.5	18.3	—
396 177	67 457	328 520	55 898	270 959	6 945	39 555	5 710	19 943	25—	25—	62.5	57.3	10.5	3.2	11.5	2.2
1 911	1 328	583	1 240	506	42	49	109	31	29.2	29.1	81.1	83.7	26.1	19.7	5.5	3.9
216	62	154	55	98	18	37	109	19	28.3	31.9	46.8	60.4	27.4	—	19.4	—
59	2	57	2	31	—	18	8	8	60.0	52.5	—	45.6	—	—	100.0	—
157	60	97	53	67	—	19	—	11	27.5	29.8	48.3	69.1	28.3	—	16.7	—
608	462	146	413	133	22	8	97	11	31.4	28.5	72.3	87.7	12.6	17.1	7.1	3.4
112	91	21	80	21	6	—	13	—	28.1	28.9	55.6	100.0	2.2	33.3	5.5	—
90	90	—	59	—	16	—	31	—	25—	—	76.9	93.2	14.9	—	—	—
225	181	44	174	39	—	—	36	—	33.6	32.3	74.0	93.2	29.0	—	11.4	—
181	100	81	100	73	—	8	—	—	43.6	25.2	80.0	81.5	14.9	22.2	5.0	—
1 087	804	283	772	275	20	4	12	12	28.3	27.7	88.8	94.3	33.8	31.8	3.5	6.4
69	69	—	69	—	—	—	—	—	35.7	27.7	100.0	—	21.7	—	—	—
173	156	17	145	17	11	—	5	—	25—	25—	85.9	58.8	12.8	—	3.2	41.2
429	299	130	299	122	299	4	7	7	28.6	28.4	93.0	100.0	26.9	26.9	8.2	8.1
416	280	136	259	136	9	—	—	—	28.6	30.8	83.2	93.4	47.9	40.4	8.2	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

	United States									
	Employed persons 16 years and over—Con.									
	Eating and drinking places									
	Race									
Both sexes	Total		White		Black		Spanish origin ¹		Median age	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	313 765	32 872	260 893	43 896	5 326	36 275	4 466	17 387	25—	50.7
Supervisors and proprietors, sales occupations	23 960	15 590	8 370	13 766	904	551	815	330	34.3	73.3
Sales representatives, finance and business services	16 847	11 076	5 771	9 810	675	178	610	247	30.2	76.4
Sales representatives, commodities, except retail	7 113	4 514	2 599	3 956	229	373	205	83	45.9	68.4
Sales workers, retail and personal services	510	285	225	273	5	20	7	18	38.3	90.7
Cashiers	289 106	36 934	252 172	29 810	4 401	35 704	3 635	17 039	25—	49.9
Other sales occupations, retail and personal services	254 073	25 723	228 350	19 926	3 624	34 011	2 780	15 948	25—	50.4
Sales related occupations	35 033	11 211	23 822	9 918	777	1 693	855	1 091	25—	48.7
Administrative support occupations, including clerical	80 501	13 457	67 044	10 762	1 597	3 231	1 135	2 525	25—	50.4
Supervisors, administrative support occupations	4 388	1 552	2 836	1 266	218	214	121	102	31.9	79.5
Computer operators	839	303	536	288	28	35	12	6	30.1	79.5
Secretaries, stenographers, and typists	16 283	479	15 804	399	29	502	6	556	31.0	88.6
Stenographers and typists	15 613	451	15 162	382	29	432	6	514	32.6	88.6
Receptionists	1 614	46	1 568	38	—	70	—	42	25—	78.6
Other information clerks	711	101	610	38	—	61	—	111	25—	83.0
File clerks	373	11	362	6	30	39	15	5	25—	85.5
Other records processing occupations, except financial	3 973	1 067	2 886	890	104	372	104	182	25—	100.0
Bookkeepers, accounting, and auditing clerks	30 965	2 535	28 430	2 156	105	651	205	897	35.7	89.9
Payroll and timekeeping clerks	1 526	149	1 377	123	10	52	12	102	35.8	89.9
Other financial records processing occupations	1 486	485	1 041	359	45	128	62	25	31.0	89.7
Telephone operators	48	44	442	37	7	51	6	15	25—	79.2
Mail and message distributing occupations	989	799	190	670	61	112	88	25	25—	58.5
Production coordinators and expeditors	2 422	728	1 734	610	92	249	25	70	25—	70.2
Traffic, shipping, and receiving clerks	2 745	653	90	485	106	32	93	7	25—	59.9
Stock and inventory clerks	2 502	317	565	309	475	79	226	13	31.8	67.7
Other material recording, scheduling, and distributing clerks	2 892	316	579	309	481	68	24	15	25—	61.5
Adjusters and investigators	744	323	437	305	13	46	26	36	25—	63.3
Date-entry keyers	780	325	457	323	13	86	14	64	25—	71.5
Other administrative support occupations	8 502	1 872	6 630	1 528	163	483	96	282	25—	100.0
Service occupations	3 126 691	1 191 328	1 935 363	950 063	114 953	138 693	128 445	87 907	25—	67.0
Private household occupations	4 385	3 894	491	3 182	511	77	152	32	25—	54.5
Protective service occupations	4 346	3 866	480	3 176	495	77	152	32	25—	59.7
Guards	39	28	11	6	16	—	—	—	25—	38.8
Other protective service occupations	3 122 306	1 187 434	1 934 872	946 881	114 442	138 616	128 293	87 875	25—	100.0
Service occupations, except protective and household	3 040 448	1 134 508	1 905 940	906 636	106 003	135 396	122 592	85 997	25—	54.5
Food preparation and service occupation	1 504	663	841	547	92	175	40	51	25—	54.5
Health service occupations	65 033	48 549	16 484	36 494	8 116	2 574	5 488	1 247	25—	69.7
Cleaning and building service occupations, except household	15 321	3 714	11 607	3 204	231	471	263	480	25—	43.3
Personal service occupations	947	720	227	610	49	13	92	2	28.6	60.7
Farming, forestry, and fishing occupations	24 489	16 715	7 724	14 458	1 394	956	1 370	448	31.0	63.8
Precision production, craft, and repair occupations	4 151	3 732	419	3 176	188	61	225	12	34.7	50.8
Mechanics and repairers	485	397	104	215	12	21	7	31	40.9	60.6
Supervisors, mechanics and repairers	456	397	57	365	19	35	8	32.5	32.2	49.2
Automobile mechanics, including body	1 131	1 059	72	365	30	16	46	9	32.1	37.5
Industrial machinery repairers	75	75	—	66	9	—	—	—	32.7	—
Electronic repairers, communications and industrial equipment	308	308	—	271	6	—	47	10	37.4	—
Heating, air conditioning, and refrigeration mechanics	1 793	1 609	184	1 440	112	24	117	35.6	25—	51.1
Other mechanics and repairers	3 900	3 482	418	3 166	199	33	179	4	34.4	62.2
Construction trades	451	439	12	426	13	33	20	39.6	25—	58.3
Supervisors, construction occupations	2 118	1 832	286	1 678	68	19	88	25.1	33.3	26.3
Carpenters	361	354	7	326	19	7	24	50.0	38.7	100.0
Electricians	470	409	61	341	53	7	24	24	31.3	59.4
Painters, construction and maintenance	222	222	—	197	18	—	23	—	71.2	—
Plumbers, pipefitters, and steamfitters	278	226	52	198	28	—	—	—	33.4	4.6
Other construction trades	—	—	—	—	—	—	—	—	58.4	50.0

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see appendix A.]

United States																	
Employed persons 16 years and over—Con.																	
Eating and drinking places																	
Race																	
Total				White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
16 388	9 501	6 887	7 873	5 687	1 007	862	413	966	27.5	28.5	61.9	64.7	6.4	2.8	3.9	3.2	
7 491	3 472	4 019	3 445	3 445	287	399	186	216	27.4	25	80.6	72.5	13.1	3.1	6.8	3.5	
268	196	72	170	67	18	5	—	15	33.0	45.9	55.6	55.6	—	19.4	—	—	
150	104	46	93	41	11	5	—	—	26.3	31.0	62.5	43.5	—	—	—	—	
45	45	—	37	—	—	—	—	8	43.9	—	53.3	—	—	—	—	—	
73	47	26	40	26	7	—	—	7	40.0	—	42.6	76.9	—	—	—	—	
89	25	64	25	36	—	—	10	10	58.5	—	53.3	—	—	53.8	—	—	
8 218	5 522	2 696	4 439	2 108	650	453	202	710	27.0	25.0	50.1	54.2	2.6	2.1	40.0	3.0	
32	17	15	11	15	6	—	15	—	25	25	100.0	—	—	—	—	—	
233	228	5	150	—	46	5	—	19	31.6	40.0	71.9	—	3.9	—	2.6	—	
57	41	16	35	16	—	—	—	6	32.8	41.7	41.5	75.0	—	—	34.1	—	
49 653	35 544	14 109	29 419	10 936	3 945	2 344	1 048	3 462	25	27.0	56.6	52.1	3.9	2.0	3.8	2.6	
6 415	3 010	3 405	2 223	2 510	518	682	241	432	25	29.1	48.5	54.9	4.6	2.8	3.3	1.2	
4 841	2 254	2 587	1 692	1 905	361	521	186	326	25	29.8	47.3	53.4	5.0	3.1	3.4	1.6	
118	67	51	59	7	4	12	—	10	38.5	25	70.1	51.0	6.0	—	9.0	—	
7	—	7	—	—	—	—	—	—	25	—	—	—	—	—	—	—	
56	34	22	22	18	—	—	—	—	25.0	—	88.2	77.3	—	—	—	—	
100	60	40	34	55	6	5	—	—	25	—	55.0	60.0	—	—	—	—	
59	26	33	26	33	—	—	—	14	25	—	11.5	100.0	—	3.3	—	—	
21	—	21	—	15	—	6	—	—	25	—	—	90.5	—	39.4	—	—	
1 085	177	908	116	656	23	173	91	12	29.6	40.6	49.7	44.7	4.0	5.0	4.5	1.3	
51	14	37	9	19	5	—	11	—	25	27.8	64.3	70.3	6.0	18.9	—	—	
83	12	71	70	12	7	—	8	—	25	—	42.2	33.3	8.9	2.1	1.4	—	
95	14	81	342	175	42	44	10	85	25	26.1	53.6	57.7	4.2	0.6	4.1	2.4	
652	418	234	1 014	876	274	281	66	205	25	—	43.6	56.6	—	—	—	—	
2 597	1 395	1 202	1 042	876	274	281	66	205	25	—	43.6	56.6	—	—	—	—	
1 325	642	683	454	518	130	113	48	83	25	26.0	48.1	56.7	0.3	2.3	3.6	—	
119	119	—	93	—	—	—	—	38	25	—	47.9	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
690	279	411	181	296	70	83	16	17	26.0	—	54.8	56.7	0.7	1.7	—	—	
516	244	272	180	222	60	30	31	25	28.7	40.6	40.6	56.6	—	3.3	9.4	—	
249	114	135	77	87	27	48	23	7	26.7	30.5	73.3	73.3	21.1	—	—	—	
44	12	32	7	29	5	3	—	—	25	—	16.7	65.6	—	—	—	—	
205	102	103	70	58	22	45	7	23	27.6	28.0	82.4	75.7	23.5	—	—	—	
26 940	22 378	4 562	19 379	3 971	1 836	400	205	1 973	25	27.1	63.4	62.7	4.6	2.3	5.0	5.3	
26 543	22 047	4 496	19 193	3 907	1 731	368	205	1 966	25	27.2	63.5	63.5	4.6	2.4	5.1	5.4	
26 494	22 071	4 423	19 157	3 894	1 731	368	205	1 966	25	27.3	63.6	63.5	4.7	2.4	5.1	5.4	
20 768	17 198	3 570	14 934	3 132	1 436	307	179	1 469	25	26.4	62.8	62.0	4.6	2.6	3.6	4.9	
2 433	2 583	1 710	2 300	613	104	53	26	210	31.5	29.5	72.2	72.3	4.9	1.5	17.1	8.7	
2 433	2 260	173	1 923	149	191	8	26	282	25	30.6	59.6	57.2	5.0	1.2	2.8	1.7	
49	36	13	36	13	—	—	—	—	31.7	25	56.5	57.2	—	—	—	—	
397	301	96	186	64	105	32	7	7	32.7	25	56.5	26.0	—	—	2.7	—	
24	24	—	24	—	—	—	—	—	32.1	—	100.0	—	—	—	—	—	
31	17	14	17	14	—	—	—	—	25	60.0	—	—	—	—	—	—	
46	27	19	27	19	—	—	—	—	32.9	25	—	—	—	—	36.8	—	
296	241	55	126	23	105	32	—	7	33.1	25.2	60.6	45.5	—	—	0.4	—	
16 298	10 156	6 142	7 817	4 455	1 591	1 262	602	1 057	25	25.9	44.0	42.7	2.3	1.4	1.2	1.4	
116	46	70	46	60	—	10	—	—	48.5	31.5	56.5	57.1	—	—	—	—	
255	146	109	110	72	27	19	19	27	36.7	30.9	32.2	32.2	—	—	4.1	—	
345	257	88	16	25	88	16	7	17	30.8	45.5	61.4	40.0	10.1	—	—	—	
4 888	4 024	864	3 203	673	568	180	40	299	25	25	43.3	51.6	2.0	0.9	1.1	0.6	
1 093	815	278	671	177	110	84	25	34	25	—	39.8	50.7	2.2	—	2.1	1.1	
3 250	2 644	606	1 901	1 001	124	501	148	148	25	25	40.4	40.6	—	1.5	—	—	
6 306	4 174	2 132	3 144	1 543	674	452	235	532	25	26.1	44.9	39.7	1.7	1.8	1.2	3.8	

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Other retail trade															
Percent self-employed															
Percent completed 4 or more years of college															
Percent high school graduates															
Median age															
Spanish origin ^a															
Race															
Black															
White															
Total															
Both sexes															
Male															
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^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States											
	Total						Other retail trade					
	Race						Spanish origin ¹					
	Both sexes		White		Black		Male		Female		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations	913 489	1 034 828	856 588	967 463	31 440	37 054	35 861	37 946	36.2	35.0	80.8	75.4
Sales representatives, except retail	291 254	134 051	276 629	127 524	7 069	3 014	9 211	3 621	40.6	41.4	86.3	85.9
Sales representatives, retail and personal services	186 890	73 120	177 823	69 502	4 805	1 951	6 000	2 122	36.8	36.2	89.5	86.1
Sales representatives, except retail	165 295	104 934	158 806	58 022	2 264	1 063	3 211	1 497	46.6	46.2	80.7	78.9
Sales representatives, except retail	3 048	1 594	3 048	1 594	73	61	61	37	37.5	32.6	88.5	80.2
Sales representatives, except retail	1 240	71	1 147	64	8	7	19	—	39.8	32.5	94.5	78.9
Sales representatives, except retail	1 513 083	617 299	1 469 784	835 232	24 239	12 053	26 496	34 229	33.8	33.9	78.2	73.8
Sales representatives, except retail	186 511	23 471	163 040	19 297	2 631	1 053	1 707	8 777	25	25	67.0	66.9
Sales representatives, except retail	1 326 572	593 828	1 273 744	690 928	21 608	12 053	24 789	25 452	34.2	34.2	78.6	75.4
Sales representatives, except retail	5 641	3 468	2 095	3 278	51	107	73	59	38.1	34.8	72.4	87.5
Administrative support occupations, including clerical	588 592	119 417	102 689	436 897	11 361	20 162	7 732	17 025	29.2	35.9	72.5	85.2
Supervisors, administrative support occupations	27 077	11 476	10 207	14 513	912	726	677	515	36.0	37.9	87.2	88.4
Computer equipment operators	9 571	3 049	2 646	5 886	254	441	177	349	27.9	29.6	95.1	90.1
Secretaries, stenographers, and typists	110 108	108 242	1 711	102 018	104	3 662	99	3 862	33.1	33.1	85.4	89.0
Secretaries	95 290	93 926	1 273	89 655	45	2 493	47	2 969	37.2	33.3	87.0	89.0
Stenographers and typists	14 818	302	438	12 613	59	1 169	52	893	30.5	31.4	81.1	84.0
Recognitions	12 775	390	14 316	11 497	24	474	344	820	26.9	30.1	67.2	81.6
Other information clerks	6 891	1 008	5 883	11 497	66	405	56	344	32.9	26.7	78.9	78.8
File clerks	5 605	509	4 200	4 323	60	528	28	322	23	26.7	62.5	63.5
Other records processing occupations, except financial	32 131	8 204	23 927	21 182	951	2 160	688	1 016	35.3	35.3	72.5	78.8
Bookkeepers, accounting, and auditing clerks	164 014	10 144	153 870	9 368	370	2 523	421	3 656	41.9	40.3	87.0	89.6
Payroll and timekeeping clerks	9 712	3 011	136	2 804	13	152	12	116	34.8	37.3	91.7	86.6
Other financial records processing occupations	3 448	8 200	1 500	2 963	81	543	148	390	36.4	34.5	78.6	79.5
Telephone operators	12 617	5 794	1 138	2 724	12	274	19	173	31.7	37.0	90.7	74.8
Mail and message distributing occupations	13 571	8 765	5 604	4 852	853	777	456	203	25	36.1	59.3	3.8
Production coordinators and expeditors	32 320	18 716	4 765	7 762	290	589	320	305	33.1	34.4	59.3	69.3
Traffic, shipping, and receiving clerks	39 852	26 156	15 034	6 529	637	690	1 617	461	28.4	31.1	61.3	74.0
Stock and inventory clerks	26 990	13 696	12 334	12 334	3 041	1 039	1 759	462	25	30.8	62.5	61.1
Other material recording, scheduling, and distributing clerks	10 463	3 888	3 668	2 948	282	296	150	170	38.0	38.6	65.3	73.2
Adapters and investigators	9 950	3 581	3 475	5 684	306	666	230	351	33.5	32.4	78.6	87.4
Date-entry typists	83 806	15 765	14 275	62 745	54	1 043	38	485	26.6	29.6	82.8	87.2
Other administrative support occupations	88 401	38 433	29 820	41 904	6 507	6 493	2 830	2 325	32.9	35.3	47.3	59.2
Service occupations	6 506	5 358	4 127	938	981	1 148	285	123	46.8	29.8	63.3	76.7
Private household occupations	5 984	4 907	3 724	885	951	1 42	268	115	29.3	29.3	61.2	79.1
Protective service occupations	522	451	403	53	30	18	17	8	43.5	40.0	85.4	40.8
Other protective service occupations	81 895	33 075	25 693	40 966	5 526	6 333	2 545	2 202	30.8	35.5	44.7	59.8
Food preparation and service occupations	25 355	4 982	20 373	4 099	713	2 365	369	731	28.4	28.8	52.3	37.9
Health service occupations	16 196	2 349	12 850	17 556	155	565	93	555	26.2	28.3	77.6	88.0
Cleaning and building service occupations, except household	34 866	24 718	18 700	6 799	4 549	2 925	2 037	628	32.3	35.1	66.6	87.8
Personal service occupations	5 478	1 026	864	3 791	109	478	46	288	32.1	35.0	66.6	69.9
Farming, forestry, and fishing occupations	11 741	6 730	5 658	4 600	574	135	643	236	28.7	30.4	51.1	69.6
Precision production, craft, and repair occupations	360 854	314 475	289 475	41 715	13 414	2 681	18 781	2 678	34.6	36.9	70.8	74.9
Mechanics and repairers	128 080	124 247	116 436	3 416	4 240	302	5 066	1 127	34.7	37.7	72.9	76.2
Supervisors, mechanics, and repairers	7 745	2 471	2 358	137	57	—	100	—	39.6	42.3	78.4	91.2
Automotive mechanics, including body	1 168	6 997	6 274	139	507	32	273	14	32.1	31.9	60.5	69.0
Industrial machinery repairers	5 325	5 147	4 835	127	228	51	175	—	35.9	33.8	72.9	75.8
Electronic repairers, communications and industrial equipment	24 048	23 793	22 209	259	771	16	926	24	35.8	30.2	80.5	82.9
Heating, air conditioning, and refrigeration mechanics	11 477	11 395	10 698	86	452	6	376	—	37.2	33.8	69.8	58.7
Other mechanics and repairers	77 297	74 454	70 062	2 548	2 225	197	3 216	89	34.1	30.9	71.9	77.9
Construction trades	93 661	91 658	83 839	1 847	4 011	93	6 811	66	31.8	31.3	65.2	75.7
Supervisors, construction occupations	1 683	1 642	1 393	34	48	7	78	—	37.9	47.1	79.4	82.9
Carpenters	16 300	16 058	14 764	175	686	47	998	8	33.6	28.0	63.7	80.6
Electricians	3 974	3 896	3 619	78	133	9	268	—	32.6	31.8	77.4	94.7
Painters, construction and maintenance	4 195	3 618	3 127	568	300	—	285	20	31.8	36.7	54.2	76.3
Plumbers, pipefitters, and steamfitters	2 229	2 226	2 020	3	128	—	25	—	65.4	65.4	68.5	—
Other construction trades	65 280	64 218	58 726	998	2 716	30	5 107	38	31.2	29.5	65.0	74.9
Persons of Spanish origin may be of any race.												

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Extrusive occupations													
Precision production occupations													
Supervisors, production occupations													
Precision metalworking occupations													
Tool and die makers													
Machinists													
Sheet metal workers													
Other precision metal workers													
Precision textile, apparel, and furnishings machine workers													
Precision food production occupations													
Precision inspectors, testers, and related workers													
Plant and system maintenance occupations													
Other precision production occupations													
Operators, fabricators, and laborers													
Machine operators, assemblers, and inspectors													
Machine operators and tenders, except precision													
Metalworking and plastic working machine operators													
Fabricating machine operators, n.e.c.													
Metal and plastic processing and woodworking machine operators													
Printing machine operators													
Textile machine operators													
Textile sewing machine operators													
Laundry and dry cleaning machine operators													
Packaging and filling machine operators													
Food, kind, and oven operators, except food													
Furnace, kiln, and other specified machine operators													
Other specified machine operators													
Miscellaneous and not specified machine operators													
Fabricators, assemblers, and hand working occupations													
Welders and cutters													
Soldiers and brazers													
Assemblers													
Hand working occupations													
Production inspectors, testers, samplers, and weighers													
Graders and sorters, except agricultural													
Other production inspectors, testers, samplers, and weighers													
Transportation and material moving occupations													
Transportation occupations													
Motor vehicle operators													
Truck drivers													
Driver-sales workers													
Other motor vehicle operators													
Rail and water transportation occupations													
Material moving equipment operators													
Supervisors, material moving equipment operators													
Crane, hoist, and winch operators													
Excavating, grading, and dozer machine operators													
Other material moving equipment operators													
Handlers, equipment cleaners, helpers, and laborers													
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.													
Helpers, craft and production													
Construction laborers													
Freight, stock, and material handlers													
Garage and service station occupations, and equipment cleaners													
Hand packers and packagers													
Laborers, except construction													

Other retail trade																	
Race				Spanish origin ^a		Median age		Percent high school graduates				Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
301	295	6	222	70	14	2 485	41.9	30.0	49.5	100.0	11.9	7.9	—	—	0.7	12.6	
138 812	98 275	40 537	88 978	5 093	2 286	6 890	38.5	37.9	73.5	74.6	11.2	7.9	—	—	21.0	12.6	
56 500	42 435	14 065	38 428	2 556	973	2 304	39.3	40.9	77.3	79.0	13.6	10.2	—	—	8.1	12.9	
14 033	10 267	3 766	9 051	439	158	1 125	33.2	29.3	72.9	77.9	4.2	12.7	—	—	20.9	12.9	
191	179	12	152	7	—	6	33.2	45.0	73.2	100.0	4.7	8.2	—	—	12.8	20.3	
1 339	1 186	153	986	137	—	91	33.8	32.7	67.6	66.1	2.8	8.2	—	—	2.4	20.3	
640	539	101	439	62	—	48	35.4	45.3	77.8	78.3	5.2	12.8	—	—	2.5	20.3	
11 863	8 339	3 524	7 479	233	122	980	33.7	28.9	74.0	78.3	10.6	12.8	—	—	26.8	20.1	
22 547	10 104	12 443	8 359	3 784	769	1 862	40.2	44.6	51.5	61.0	2.7	4.8	—	—	9.6	6.2	
1 450	884	566	757	66	36	68	40.7	45.3	57.1	57.1	1.4	3.0	—	—	0.6	8.0	
1 194	134	106	118	7	14	—	37.7	28.5	86.6	60.0	4.5	—	—	—	—	—	
905	850	55	808	32	15	58	37.0	25.9	69.4	63.6	16.9	12.7	—	—	36.0	8.0	
33 581	9 602	8 950	31 437	1 219	321	1 464	38.1	30.1	75.8	85.9	11.3	6.9	—	—	—	—	
442 758	364 728	78 030	310 646	39 098	7 858	23 681	26.9	34.3	56.1	62.9	3.1	4.9	—	—	3.5	9.2	
179 232	147 635	31 597	116 038	4 640	2 966	4 269	31.1	37.3	56.2	64.4	6.2	7.9	—	—	11.8	18.8	
49 050	37 603	11 447	26 156	3 288	1 831	2 881	32.3	38.3	56.9	64.0	5.7	6.7	—	—	14.2	24.7	
1 922	1 534	389	1 145	141	46	2 304	33.9	33.6	44.7	61.7	2.9	—	—	—	7.2	—	
170	139	31	95	32	2	12	31.0	34.2	59.7	61.3	4.3	—	—	—	—	—	
5 043	4 418	625	3 671	538	135	297	33.8	34.8	48.5	61.1	4.3	4.0	—	—	12.6	10.9	
3 636	2 266	1 370	1 928	225	95	111	33.6	31.9	76.2	72.5	4.9	6.8	—	—	4.5	0.9	
541	217	324	149	255	55	34	35.3	39.5	47.9	75.3	3.2	9.9	—	—	15.2	31.5	
2 775	460	2 315	328	95	223	70	30.5	48.4	51.7	55.1	—	2.6	—	—	13.9	14.8	
420	252	168	210	36	48	44	—	41.8	66.7	45.8	3.2	—	—	—	4.4	1.2	
832	400	432	319	52	26	21	52	33.2	55.5	49.1	5.3	3.9	—	—	4.8	2.3	
522	462	60	415	14	3	35	33.6	41.4	56.3	61.4	7.6	11.7	—	—	6.1	24.0	
10 470	7 456	3 014	6 488	812	275	455	30.7	32.2	57.6	64.2	3.6	4.6	—	—	15.9	38.5	
22 718	11 796	10 922	9 770	1 289	923	1 279	32.6	39.1	57.6	65.5	8.4	8.6	—	—	—	—	
24 375	15 941	8 434	13 969	1 105	588	1 197	28.4	33.8	60.0	70.3	7.0	13.2	—	—	10.6	12.2	
2 844	1 981	853	1 189	189	11	212	32.3	44.6	59.8	56.6	1.6	1.6	—	—	5.4	5.4	
77	40	37	23	11	5	20	30.2	25.5	39.0	43.2	15.0	21.6	—	—	15.0	—	
18 762	11 574	7 188	10 142	799	508	813	28.2	33.7	61.5	70.5	8.0	13.4	—	—	12.0	10.8	
3 452	2 346	1 106	2 115	247	64	152	25—	34.2	53.6	70.5	6.2	12.4	—	—	23.1	30.4	
5 827	2 494	3 333	2 095	247	547	210	33.4	41.3	62.3	51.8	6.1	1.7	—	—	4.0	1.1	
3 239	1 366	1 873	1 358	144	352	130	32.6	41.4	53.5	48.9	3.5	1.8	—	—	3.2	1.5	
2 588	1 128	1 460	956	103	195	80	34.5	41.3	72.9	55.6	9.2	1.6	—	—	4.9	0.5	
205 622	191 810	13 804	165 162	20 672	1 028	493	30.1	31.4	59.9	66.2	2.7	3.5	—	—	3.1	4.2	
188 480	175 470	13 010	151 723	18 479	900	9 586	30.0	31.2	59.9	65.7	2.7	3.6	—	—	3.3	4.4	
188 209	175 237	12 972	151 490	18 479	897	9 586	30.0	31.2	59.9	65.7	2.7	3.5	—	—	3.3	4.4	
154 439	148 225	6 214	126 486	17 168	907	8 305	29.4	26.4	57.8	65.0	2.3	3.8	—	—	2.5	3.1	
28 756	22 387	6 369	5 843	887	409	848	33.1	35.1	72.3	65.4	4.5	2.6	—	—	8.8	5.7	
5 014	4 625	389	4 010	333	42	433	33.0	32.0	66.2	82.8	6.1	13.9	—	—	2.6	3.1	
271	233	38	233	—	—	—	30.4	40.0	55.4	52.6	2.6	3.4	—	—	0.9	5.3	
17 142	16 348	794	13 439	655	128	174	31.0	32.8	59.9	74.2	2.6	3.4	—	—	0.9	1.3	
3 490	3 457	33	3 235	33	108	186	34.7	36.9	68.6	51.5	4.8	—	—	—	0.7	—	
3 385	3 375	10	3 226	33	39	32	32.7	33.3	53.9	100.0	2.1	—	—	—	2.4	—	
573	573	6	527	6	—	44	34.1	25—	34.1	44.0	100.0	—	—	—	—	—	
12 691	11 943	748	9 351	2 013	128	912	29.6	32.6	58.4	74.7	2.1	3.6	—	—	0.8	1.3	
157 884	125 075	32 809	105 135	13 786	3 864	8 652	25—	32.8	49.6	60.2	2.6	2.5	—	—	1.4	2.1	
244	185	59	185	—	—	—	41.0	32.7	45.4	91.5	—	—	—	—	14.1	22.0	
2 897	2 572	325	2 015	353	18	290	25—	39.6	43.9	54.2	1.3	6.8	—	—	1.7	6.8	
1 631	1 566	65	1 266	208	6	72	29.0	28.6	58.0	58.5	6.5	2.3	—	—	0.3	1.0	
72 515	61 930	10 585	52 889	6 265	867	3 875	25—	27.7	43.2	63.3	2.0	2.3	—	—	—	—	
2 809	2 384	425	2 046	265	44	90	25—	31.2	45.8	67.8	1.3	2.8	—	—	3.9	4.9	
12 331	3 797	8 534	2 903	1 302	566	496	26.3	38.3	52.7	56.4	5.6	1.7	—	—	2.0	1.2	
65 457	52 641	12 816	43 811	6 129	1 627	3 809	25—	33.1	57.0	59.9	3.2	3.2	—	—	2.5	3.3	

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Finance, insurance, and real estate, total												Percent self-employed				
	Race						Spanish origin ¹		Median age		Percent high school graduates				Percent completed 4 or more years of college		
	Total		White		Black												
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over	5 898 059	2 476 342	3 421 717	2 226 113	3 005 386	162 949	286 904	107 575	151 954	39.7	32.9	88.9	91.3	39.6	11.2	10.7	2.7
Managerial and professional specialty occupations	1 370 036	830 534	539 502	775 314	486 951	30 657	34 069	26 811	19 154	39.7	35.1	95.1	93.2	53.5	22.2	4.8	2.3
Executive, administrative, and managerial occupations	1 249 445	756 945	492 500	707 082	445 358	27 973	30 293	24 893	17 837	40.9	35.6	94.9	92.9	51.8	19.9	5.0	2.4
Offices and administrators, public administration	1 09 109	62 462	47 45	62 462	45 45	3 704	3 643	3 681	2 217	40.9	38.0	100.0	85.1	72.6	14.9	0.8	0.3
Financial managers	195 260	124 256	71 004	117 190	65 639	3 704	3 643	3 681	2 217	38.2	37.4	94.9	94.9	50.7	15.7	4.7	0.8
Managers, marketing, advertising, and public relations	52 323	44 985	7 338	43 381	7 058	1 005	1 191	843	221	40.9	36.0	96.7	97.1	48.8	31.5	4.9	7.3
Administrators, education and related fields	889	574	315	435	285	20	14	8	5	44.9	41.4	93.0	94.3	56.4	29.5	—	—
Managers, medicine and health	181 332	99 945	81 387	89 065	74 583	6 824	4 494	6 545	3 026	45.7	43.5	81.4	80.5	33.4	14.9	17.4	9.1
Other specialized managers	364 009	240 459	123 550	228 443	113 817	6 658	6 679	6 324	3 721	42.8	37.5	95.4	94.2	52.6	19.4	5.3	2.3
Managers and administrators, n.e.c.	346 712	227 349	119 363	215 883	109 821	6 425	6 587	6 085	3 613	42.5	37.1	95.6	94.3	52.7	19.1	—	—
Self-employed	17 297	13 110	4 187	12 560	3 996	233	92	239	108	50.1	47.2	92.1	89.9	50.5	27.4	96.8	68.3
Management related occupations	455 543	246 684	208 859	228 372	183 931	9 762	15 270	7 492	8 647	35.7	32.7	98.0	96.2	59.6	23.1	1.8	0.4
Accountants and auditors	117 238	62 280	54 958	55 354	45 702	3 558	5 307	2 286	2 291	33.5	31.0	98.9	96.4	58.0	32.3	1.4	0.5
Personnel, training, and labor relations specialists	29 544	10 517	19 027	9 567	16 306	667	1 977	401	799	37.4	32.8	95.6	96.9	53.4	28.1	1.0	0.5
Buyers and purchasing agents	6 941	4 045	2 896	3 751	2 675	170	148	126	78	41.1	32.6	92.4	93.1	73.2	20.1	6.2	1.7
Inspectors and compliance officers	8 314	6 249	2 065	5 667	1 640	405	347	177	70	40.4	31.1	91.0	94.6	36.7	19.3	3.1	0.5
Other management related occupations	293 506	163 593	129 913	154 033	117 608	4 962	7 491	4 502	5 409	36.6	33.5	98.2	96.0	58.4	18.7	1.8	0.3
Professional specialty occupations	120 571	73 569	47 002	68 232	41 593	2 684	3 776	1 918	1 317	35.8	32.5	98.1	96.5	70.4	46.1	3.1	1.3
Engineers, architects, and surveyors	13 048	11 946	1 102	11 023	976	404	73	408	40	37.6	30.2	96.2	99.1	64.8	48.5	4.1	3.0
Architects	2 877	2 582	295	2 302	288	113	—	158	—	33.2	31.0	96.6	100.0	74.9	58.6	11.2	4.4
Engineers	9 832	9 033	799	8 392	680	291	73	250	40	38.6	29.8	96.3	98.7	63.6	47.4	2.5	2.5
Civil engineers	1 946	1 881	65	1 769	60	45	—	61	5	40.7	31.1	94.1	100.0	63.6	50.8	1.2	—
Electrical and electronic engineers	540	498	42	465	42	19	—	10	—	37.0	25.1	96.4	100.0	57.2	42.2	0.3	—
Industrial engineers	4 598	4 128	470	3 847	371	151	63	57	35	38.9	28.8	97.2	100.0	68.4	46.2	1.2	—
Mechanical engineers	897	881	16	843	16	21	—	64	—	35.6	30.0	97.3	100.0	38.4	42.5	0.6	—
Other engineers	1 851	1 645	206	1 468	191	55	10	58	—	42.5	32.8	97.9	97.6	71.9	49.5	4.7	9.7
Surveyors and mapping scientists	339	331	8	327	8	—	—	—	—	34.3	58.3	91.5	100.0	19.8	—	16.3	—
Computer systems analysts and scientists	18 051	11 633	6 418	10 761	5 568	395	520	259	255	33.5	31.7	99.0	97.2	52.0	46.0	0.8	0.8
Operations and systems researchers and analysts	11 264	6 564	4 700	5 945	4 249	291	328	228	87	34.6	31.7	99.0	97.6	57.7	48.2	0.3	0.3
Mathematical scientists	9 794	6 217	3 577	5 828	3 172	95	246	54	54	32.6	30.6	99.7	98.9	88.0	52.6	0.6	0.6
Natural scientists	1 208	707	501	636	441	26	33	19	11	38.3	32.8	98.0	94.4	68.2	29.3	5.7	2.8
Chemists, except biochemists	408	217	191	195	151	7	13	19	11	34.6	31.2	100.0	92.7	68.2	39.2	—	—
Other natural scientists	800	490	310	441	290	19	20	19	11	39.6	34.1	97.1	95.5	68.2	23.3	8.2	4.5
Health diagnosing occupations	1 298	889	409	842	283	13	66	4	29	46.6	35.8	99.4	97.1	94.6	49.9	12.5	8.3
Health assessment and treating occupations	5 253	474	4 779	4 228	4 380	22	273	4	71	35.8	39.9	92.4	98.0	64.3	31.8	4.9	1.7
Registered nurses	4 486	163	4 323	155	3 976	8	233	—	69	34.1	40.4	98.2	98.8	58.9	31.0	—	1.4
Other health assessment and treating occupations	767	311	456	273	404	14	40	—	2	37.1	33.8	89.4	90.8	67.2	38.8	7.4	3.9
Teachers, except postsecondary	2 114	1 189	925	1 100	795	67	113	21	17	34.6	34.8	98.4	94.2	68.8	41.9	2.8	1.7
Social scientists and urban planners	14 164	8 952	5 212	8 250	4 814	279	216	269	132	37.0	31.2	98.4	97.8	79.6	55.8	3.6	0.5
Social and recreation workers	3 487	1 982	2 505	6 550	3 591	281	171	68	140	32.3	35.0	97.0	88.3	59.3	34.3	2.5	1.4
Lawyers and judges	16 159	13 197	2 962	12 839	6 500	281	188	173	73	38.3	31.9	99.8	98.9	96.9	72.0	4.5	1.3
Writers, artists, entertainers, and athletes	21 073	9 437	11 636	8 713	10 687	405	691	378	344	38.9	32.4	95.5	95.3	52.9	42.3	4.0	1.8
Other professional specialty occupations	3 658	1 382	2 276	1 217	1 968	121	238	57	44	39.1	34.6	94.4	95.2	58.4	42.4	5.1	1.1
Technical sales, and administrative support occupations	4 115 381	1 327 364	2 788 017	1 211 458	2 450 500	73 640	231 510	46 411	125 521	39.5	32.2	93.3	92.2	39.1	9.3	16.3	2.8
Technicians and related support occupations	79 101	42 871	36 230	38 136	31 608	2 417	2 710	1 543	1 181	31.6	30.6	96.8	95.4	40.5	28.7	3.4	2.7
Health technicians and technicians	1 656	404	252	352	1 040	4	158	6	40	31.9	33.0	95.8	90.1	49.0	13.6	—	3.1
Library technicians	756	67	689	53	575	—	—	—	—	31.9	34.7	100.0	87.8	43.3	4.2	—	5.7
Other health technicians and technicians	900	337	563	299	485	4	53	6	17	31.8	31.0	95.0	92.9	50.1	25.0	—	—
Engineering and science technicians	6 974	4 409	2 565	3 819	2 127	374	305	285	171	32.3	30.6	91.2	93.5	32.8	19.8	3.2	0.7
Electrical and electronic technicians	2 252	1 426	826	1 197	668	143	134	89	26	31.4	30.2	94.2	92.4	18.3	8.8	1.4	—
Industrial and mechanical engineering technicians	2 266	1 115	1 151	1 111	1 37	—	12	—	6	31.8	28.3	87.8	100.0	52.2	43.0	—	—
Drafting and surveying technicians	2 507	1 829	678	1 556	598	167	65	128	71	31.6	29.9	86.3	92.0	23.2	26.7	2.0	1.0
Other engineering and science technicians	1 949	1 039	910	935	764	64	94	68	68	35.3	31.7	95.8	94.5	50.3	20.8	8.0	1.2
Technicians, except health, engineering, and science	70 471	38 058	32 413	33 965	28 421	2 039	2 308	1 252	970	31.5	30.5	97.5	95.8	41.8	30.0	3.5	2.8
Airplane pilots and navigators	592	584	8	567	8	5	—	5	—	39.0	28.3	96.9	100.0	29.5	25.0	—	—
Air traffic controllers and broadcast equipment operators	472	185	287	174	237	5	34	9	27	31.2	29.1	95.1	89.9	51.4	8.4	—	0.4
Computer programmers	39 749	25 213	14 536	22 182	12 316	1 467	1 194	820	372	30.6	29.5	98.5	97.8	44.4	36.8	0.5	0.9
Other technicians, except health, engineering, and science	29 658	12 076	17 582	11 042	15 840	562	1 080	418	571	34.0	31.8	95.3	94.2	47.7	18.7	9.9	4.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Employed persons 16 years and over—Con.																
Finance, insurance, and real estate, total																
Total			White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1 388 853	898 434	490 419	853 281	459 506	27 550	19 970	20 345	13 143	42.9	39.8	94.3	93.5	43.4	20.1	23.3	11.6
20 836	15 922	4 914	15 352	4 570	296	218	359	97	42.3	35.4	95.1	96.0	56.4	27.1	22.9	14.6
5 553	4 914	639	4 353	4 043	53	16 838	19 425	11 139	48.4	49.0	92.1	95.0	56.8	33.6	97.3	90.5
1 315 666	865 001	450 665	821 527	424 303	26 504	16 838	19 425	11 139	46.0	33.2	94.3	94.3	43.3	21.1	23.6	15.1
527	453	74	439	74	585	2 897	458	1 890	40.4	32.9	87.5	88.1	58.4	20.3	9.5	23.0
44 647	10 396	34 251	9 512	30 068	328	2 427	290	1 604	34.3	36.2	91.3	89.3	24.9	6.2	8.9	1.4
30 816	3 880	26 936	3 145	23 791	257	2 427	168	286	43.9	32.2	85.2	83.8	30.0	13.3	13.2	5.9
13 831	6 463	7 368	1 412	5 956	55	17	22	17	36.5	31.0	87.9	89.9	18.0	5.9	6.5	3.4
2 185	1 748	437	1 673	600	55	17	22	17	36.5	31.0	87.9	89.9	18.0	5.9	6.5	3.4
2 647 427	386 059	2 261 368	320 041	1 939 326	43 473	208 749	24 523	111 197	32.1	30.7	90.7	91.8	29.1	6.7	1.4	0.3
175 156	66 374	108 782	51 091	57 691	4 081	5 528	2 189	2 154	38.0	36.2	92.5	94.1	40.7	10.4	0.9	0.1
63 660	27 178	36 482	5 422	31 060	4 791	39 696	4 414	28 283	33.7	32.1	87.0	93.7	25.3	7.4	0.3	0.1
648 523	6 661	641 862	5 422	581 440	375	22 849	209	20 950	36.2	32.1	87.8	94.5	28.4	6.0	1.4	0.5
533 174	4 908	528 266	4 300	490 731	375	22 849	205	20 950	27.8	28.3	84.7	89.8	16.5	3.3	1.8	0.3
115 349	1 753	113 596	1 322	90 692	116	2 974	57	2 756	27.8	28.5	81.9	87.8	23.4	5.2	1.9	0.4
39 125	913	38 212	729	33 807	126	2 974	57	2 756	31.6	29.9	91.9	91.9	35.6	7.7	0.5	0.1
40 940	6 868	34 072	5 823	28 249	681	3 516	322	3 585	25—	25—	75.8	77.6	11.2	2.9	0.9	0.3
60 033	5 537	54 496	3 757	42 739	1 277	7 584	468	3 201	32.2	30.4	88.8	91.6	26.8	7.8	0.8	0.2
77 784	13 041	64 743	10 873	53 870	1 462	7 584	757	3 201	32.2	30.4	88.8	91.6	26.8	7.8	0.8	0.2
257 397	25 507	231 890	20 676	206 205	2 908	16 377	1 707	9 900	31.1	32.8	92.1	91.9	24.4	6.4	1.6	0.8
8 193	7 408	65 437	5 011	1 012	1 012	7 231	49	374	29.4	32.9	89.6	91.5	22.7	5.0	0.9	0.1
72 131	6 694	65 437	5 011	1 012	1 012	7 231	49	374	27.7	27.9	89.6	91.5	22.7	5.0	0.9	0.1
14 342	630	13 712	420	11 711	1 012	1 446	674	3 156	27.7	27.9	89.6	91.5	22.7	5.0	0.9	0.1
44 890	27 616	17 274	20 345	13 342	5 745	3 096	2 291	603	26.0	25.5	69.6	76.8	18.3	2.5	1.0	0.2
15 521	3 979	11 542	2 898	8 649	689	2 051	536	805	30.4	30.9	91.7	88.9	5.3	3.1	0.6	0.3
3 716	2 272	1 444	1 502	1 170	618	185	243	160	31.3	29.5	91.7	88.9	22.7	6.7	1.3	0.1
8 706	5 436	3 270	4 168	2 671	96	439	353	170	28.4	28.6	80.6	83.4	8.5	7.7	0.6	0.2
3 642	997	2 645	80 048	126 413	4 961	18 607	2 877	6 729	33.5	28.6	77.3	83.9	19.2	5.5	0.2	0.2
Other material recording, scheduling, and distributing clerks	238 897	87 544	151 353	80 048	71 302	4 961	18 607	2 877	34.8	28.6	90.2	94.6	17.8	4.7	3.3	0.2
Adjusters and investigators	44 501	4 335	40 166	2 741	42 160	995	13 821	508	26.8	28.7	90.1	90.1	13.7	3.7	—	0.1
Date-entry keyers	810 270	93 672	716 598	73 579	617 448	12 487	66 871	8 100	27.2	29.7	89.1	91.3	20.5	5.9	1.0	0.2
Other administrative support occupations	246 670	176 270	70 400	126 481	48 532	37 414	17 866	21 100	44.1	45.9	50.8	44.3	4.6	2.5	1.9	1.7
Service occupations	35 394	32 336	3 058	25 170	2 311	5 744	624	2 374	52.1	32.9	64.3	73.2	7.7	6.9	0.5	0.2
Private household occupations	33 529	30 623	2 906	23 740	2 193	5 497	594	2 343	52.5	32.9	63.2	72.9	7.1	6.8	0.5	0.2
Protective service occupations	1 869	1 713	156	1 430	118	247	30	31	47.0	33.8	83.8	78.2	18.2	9.6	0.7	3.8
Other protective service occupations	211 276	143 934	67 342	101 311	46 221	31 670	17 242	18 756	42.0	46.3	49.2	47.2	3.9	2.3	2.2	1.7
Service occupations, except protective and household	11 057	3 416	7 641	2 189	5 751	790	1 517	534	31.0	35.3	47.7	51.8	6.4	3.1	0.4	0.3
Food preparation and service occupation	2 201	249	1 952	1 194	722	55	619	7	41.9	31.1	75.5	69.2	21.7	9.4	1.0	1.9
Health service occupations	185 482	132 478	53 004	93 603	35 845	29 244	14 002	16 530	41.9	46.8	47.6	39.3	3.7	1.6	2.3	1.9
Cleaning and building service occupations, except household	12 536	7 791	4 745	5 325	3 403	1 581	1 104	1 655	48.6	41.3	49.1	59.3	7.3	5.4	1.2	2.2
Personal service occupations	30 974	29 412	1 562	23 611	1 363	3 510	158	3 279	37.5	30.9	45.7	61.5	3.3	8.3	2.1	2.8
Farming, forestry, and fishing occupations	77 105	69 194	7 911	56 879	6 905	9 326	762	5 121	38.7	34.6	65.9	84.1	8.5	10.7	5.6	4.5
Precision production, craft, and repair occupations	18 317	17 296	1 021	14 361	845	2 128	121	1 323	36.6	32.3	66.7	86.9	4.5	12.0	3.4	4.1
Mechanics and repairers	1 351	1 222	129	1 033	99	144	18	65	43.6	36.2	73.8	93.8	8.1	18.6	1.8	—
Supervisors, mechanics and repairers	1 373	1 330	43	1 123	43	158	9	123	35.2	26.3	62.6	88.4	2.8	32.6	6.8	—
Automobile mechanics, including body	3 565	3 406	159	2 831	134	419	9	252	34.8	31.6	61.5	61.6	2.3	10.1	1.9	—
Industrial machinery repairers	327	281	46	263	40	12	6	6	33.2	33.2	93.2	100.0	13.5	10.9	12.8	—
Electronic repairers, communications and industrial equipment	2 125	2 104	21	1 804	21	213	88	176	24.8	65+	73.2	61.9	2.2	10.3	0.8	—
Heating, air conditioning, and refrigeration mechanics	9 576	8 953	623	7 307	508	1 182	747	747	36.8	32.0	65.9	91.7	5.3	32.0	4.0	6.7
Other mechanics and repairers	39 871	37 781	2 090	30 573	1 790	5 479	222	2 986	38.4	34.1	61.0	73.4	7.4	13.3	8.0	11.0
Construction trades	7 633	7 137	496	6 325	459	438	14	293	42.1	44.8	76.2	96.2	19.1	20.6	7.2	17.5
Supervisors, construction occupations	10 783	10 472	310	8 909	226	1 034	13	541	38.7	38.7	61.8	76.2	1.8	10.4	10.4	11.0
Carpenters	2 861	2 762	99	2 358	272	1 034	13	541	38.7	38.7	61.8	76.2	1.8	10.4	10.4	11.0
Electricians	12 684	11 737	947	9 566	844	1 944	64	1 345	49	32.3	51.9	74.9	4.3	9.9	7.6	13.4
Painters, construction and maintenance	12 684	11 737	947	9 566	844	1 944	64	1 345	49	32.3	51.9	74.9	4.3	9.9	7.6	13.4
Masons, pipelayers, and steamfitters	2 190	2 001	189	1 415	145	862	3	448	41.7	25.1	55.9	74.9	3.7	12.8	4.7	17.9
Other construction trades	2 190	2 001	189	1 415	145	862	3	448	34.4	36.1	47.6	87.3	1.4	18.5	11.0	12.7

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Finance, insurance, and real estate, total										
	Race																				
	Total		White		Black																
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																					
Precision production, craft, and repair occupations—Con.																					
Extraction occupations	164	142	22	136	22	136	22	136	22	136	22	136	22	136	22	136	22	136	22	136	22
Precision production occupations	18 753	13 975	4 778	11 809	4 248	11 809	4 248	11 809	4 248	11 809	4 248	11 809	4 248	11 809	4 248	11 809	4 248	11 809	4 248	11 809	4 248
Supervisors, production occupations	10 400	6 278	4 122	5 452	3 750	5 452	3 750	5 452	3 750	5 452	3 750	5 452	3 750	5 452	3 750	5 452	3 750	5 452	3 750	5 452	3 750
Precision metalworking occupations	822	750	72	616	51	616	51	616	51	616	51	616	51	616	51	616	51	616	51	616	51
Tool and die makers	28	22	6	22	6	22	6	22	6	22	6	22	6	22	6	22	6	22	6	22	6
Mechanists	406	363	43	303	27	303	27	303	27	303	27	303	27	303	27	303	27	303	27	303	27
Sheet metal workers	60	48	12	38	12	38	12	38	12	38	12	38	12	38	12	38	12	38	12	38	12
Other precision metal workers	328	317	11	253	6	253	6	253	6	253	6	253	6	253	6	253	6	253	6	253	6
Precision textile, apparel, and furnishings machine workers	1 157	96	61	65	34	65	34	65	34	65	34	65	34	65	34	65	34	65	34	65	34
Precision food production occupations	414	262	152	209	117	209	117	209	117	209	117	209	117	209	117	209	117	209	117	209	117
Precision inspectors, testers, and related workers	204	160	44	123	44	123	44	123	44	123	44	123	44	123	44	123	44	123	44	123	44
Plant and system operators	6 298	6 178	120	5 162	98	5 162	98	5 162	98	5 162	98	5 162	98	5 162	98	5 162	98	5 162	98	5 162	98
Other precision production occupations	458	251	207	182	74	182	74	182	74	182	74	182	74	182	74	182	74	182	74	182	74
Operators, fabricators, and laborers	57 893	43 568	14 325	32 370	11 135	32 370	11 135	32 370	11 135	32 370	11 135	32 370	11 135	32 370	11 135	32 370	11 135	32 370	11 135	32 370	11 135
Machine operators, assemblers, and inspectors	22 707	12 789	9 918	9 240	7 817	9 240	7 817	9 240	7 817	9 240	7 817	9 240	7 817	9 240	7 817	9 240	7 817	9 240	7 817	9 240	7 817
Machine operators and tenders, except precision	18 530	10 331	8 199	7 453	6 576	7 453	6 576	7 453	6 576	7 453	6 576	7 453	6 576	7 453	6 576	7 453	6 576	7 453	6 576	7 453	6 576
Metalworking and plastic working machine operators	480	202	278	124	218	124	218	124	218	124	218	124	218	124	218	124	218	124	218	124	218
Fabricating machine operators, n.e.c.	21	6	15	6	9	6	9	6	9	6	9	6	9	6	9	6	9	6	9	6	9
Metal and plastic processing and woodworking machine operators	440	246	194	163	188	163	188	163	188	163	188	163	188	163	188	163	188	163	188	163	188
Printing machine operators	6 516	4 388	2 128	3 213	1 785	3 213	1 785	3 213	1 785	3 213	1 785	3 213	1 785	3 213	1 785	3 213	1 785	3 213	1 785	3 213	1 785
Textile machine operators	140	77	63	59	33	59	33	59	33	59	33	59	33	59	33	59	33	59	33	59	33
Textile sewing machine operators	127	77	50	6	94	6	94	6	94	6	94	6	94	6	94	6	94	6	94	6	94
Laundry and dry cleaning machine operators	332	124	208	82	130	82	130	82	130	82	130	82	130	82	130	82	130	82	130	82	130
Printing and filling machine operators	103	54	49	54	49	54	49	54	49	54	49	54	49	54	49	54	49	54	49	54	49
Engraving, tool, and die makers	1 252	1 222	30	738	30	738	30	738	30	738	30	738	30	738	30	738	30	738	30	738	30
Other specified machine operators	3 187	1 581	1 606	1 309	1 304	1 309	1 304	1 309	1 304	1 309	1 304	1 309	1 304	1 309	1 304	1 309	1 304	1 309	1 304	1 309	1 304
Miscellaneous and not specified machine operators	5 932	2 425	3 507	1 699	2 736	1 699	2 736	1 699	2 736	1 699	2 736	1 699	2 736	1 699	2 736	1 699	2 736	1 699	2 736	1 699	2 736
Fabricators, assemblers, and hand working occupations	1 857	1 012	845	746	656	746	656	746	656	746	656	746	656	746	656	746	656	746	656	746	656
Welders and others	463	354	109	271	83	271	83	271	83	271	83	271	83	271	83	271	83	271	83	271	83
Solders and brazers	42	17	25	6	37	6	37	6	37	6	37	6	37	6	37	6	37	6	37	6	37
Assemblers	906	419	487	320	277	320	277	320	277	320	277	320	277	320	277	320	277	320	277	320	277
Hand working occupations	446	222	224	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149
Production inspectors, testers, samplers, and weighers	2 320	1 446	874	1 161	585	1 161	585	1 161	585	1 161	585	1 161	585	1 161	585	1 161	585	1 161	585	1 161	585
Cleaners and sorters, except operational	812	329	483	192	345	192	345	192	345	192	345	192	345	192	345	192	345	192	345	192	345
Other production inspectors, testers, samplers, and weighers	1 508	1 117	391	969	240	969	240	969	240	969	240	969	240	969	240	969	240	969	240	969	240
Transportation and material moving occupations	13 377	11 896	1 481	8 922	1 182	8 922	1 182	8 922	1 182	8 922	1 182	8 922	1 182	8 922	1 182	8 922	1 182	8 922	1 182	8 922	1 182
Transportation occupations	10 479	9 584	895	7 041	657	7 041	657	7 041	657	7 041	657	7 041	657	7 041	657	7 041	657	7 041	657	7 041	657
Motor vehicle operators	10 305	9 448	857	6 913	649	6 913	649	6 913	649	6 913	649	6 913	649	6 913	649	6 913	649	6 913	649	6 913	649
Truck drivers	5 121	4 657	464	3 488	376	3 488	376	3 488	376	3 488	376	3 488	376	3 488	376	3 488	376	3 488	376	3 488	376
Other motor vehicle operators	4 885	4 504	379	3 187	267	3 187	267	3 187	267	3 187	267	3 187	267	3 187	267	3 187	267	3 187	267	3 187	267
Rail and water transportation occupations	1 174	136	38	1 038	18	1 038	18	1 038	18	1 038	18	1 038	18	1 038	18	1 038	18	1 038	18	1 038	18
Material moving equipment operators	2 898	2 312	586	1 881	515	1 881	515	1 881	515	1 881	515	1 881	515	1 881	515	1 881	515	1 881	515	1 881	515
Supervisors, material moving equipment operators	107	73	34	66	29	66	29	66	29	66	29	66	29	66	29	66	29	66	29	66	29
Crane, hoist, and winch operators	156	149	7	774	15	774	15	774	15	774	15	774	15	774	15	774	15	774	15	774	15
Excavating, grading, and dozer machine operators	889	874	15	950	464	950	464	950	464	950	464	950	464	950	464	950	464	950	464	950	464
Other material moving equipment operators	1 746	1 216	530	1 017	1 336	1 017	1 336	1 017	1 336	1 017	1 336	1 017	1 336	1 017	1 336	1 017	1 336	1 017	1 336	1 017	1 336
Handlers, equipment cleaners, helpers, and laborers	21 809	18 883	2 926	14 088	2 136	14 088	2 136	14 088	2 136	14 088	2 136	14 088	2 136	14 088	2 136	14 088	2 136	14 088	2 136	14 088	2 136
Supervisors, handlers, equipment cleaners, and laborers	333	228	105	180	96	180	96	180	96	180	96	180	96	180	96	180	96	180	96	180	96
n.e.c.	906	784	122	626	45	626	45	626	45	626	45	626	45	626	45	626	45	626	45	626	45
Helpers, craft and production	1 916	1 638	278	1 333	422	1 333	422	1 333	422	1 333	422	1 333	422	1 333	422	1 333	422	1 333	422	1 333	422
Construction laborers	2 343	1 796	547	1 547	422	1 547	422	1 547	422	1 547	422	1 547	422	1 547	422	1 547	422	1 547	422	1 547	422
Freight, stock, and material handlers	592	542	50	325	32	325	32	325	32	325	32	325	32	325	32	325	32	325	32	325	32
Garage and service station occupations, and equipment cleaners	435	165	270	122	134	122	134	122	134	122	134	122	134	122	134	122	134	122	134	122	134
Hand packers and packagers	15 284	13 510	1 774	10 017	1 336	10 017	1 336	10 017	1 336	10 017	1 336	10 017	1 336	10 017	1 336	10 017	1 336	10 017	1 336	10 017	1 336
Laborers, except construction																					

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Total					Race				
	Both sexes		Male		Female	White		Black		Spanish origin ¹
						Male	Female	Male	Female	
Employed persons 16 years and over	2 221 438	681 228	1 540 210	598 924	1 336 017	51 702	136 236	33 421	81 444	
Managerial and professional specialty occupations	671 680	401 108	270 572	375 592	243 946	13 179	16 348	12 487	10 867	
Executive, administrative, and managerial occupations	634 798	379 389	255 409	355 958	230 384	12 290	15 416	11 582	10 368	
Office and administrative, public administration	31	27	4	27	4	3 444	3 463	3 499	2 119	
Financial managers	179 340	112 724	66 616	106 314	61 602	110	52	107	44	
Managers, marketing, advertising, and public relations	6 907	5 322	1 585	5 142	1 500	—	7	8	5	
Administrators, education and related fields	—	238	132	238	120	—	—	—	—	
Managers, medicine and health	—	—	—	—	—	—	—	—	—	
Other specified managers	10 943	5 939	5 004	5 445	4 524	369	282	227	228	
Managers and administrators, n.e.c.	114 388	75 655	38 733	71 657	35 107	2 137	2 280	2 077	1 589	
Self-employed	113 392	74 803	38 589	70 818	34 971	2 129	2 280	2 057	1 583	
Management-related occupations	996	852	144	839	138	8	—	20	6	
Accountants and auditors	322 819	179 484	143 335	167 135	127 525	6 230	9 332	5 664	6 383	
Personnel, training, and labor relations specialists	58 060	30 633	27 427	26 938	22 805	1 847	2 699	1 344	1 312	
Buyers and purchasing agents	13 931	4 019	9 912	3 582	8 479	254	925	191	503	
Inspectors and compliance officers	2 969	1 753	1 236	1 648	1 134	55	52	30	6	
Other management related occupations	1 389	1 095	294	1 006	53	51	53	5	6	
Professional specialty occupations	246 450	141 984	104 466	133 961	94 872	4 023	5 603	4 048	4 499	
Engineers, architects, and surveyors	36 882	21 719	15 163	19 634	13 562	889	932	905	497	
Architects	1 612	1 403	183	1 778	1 060	84	209	120	101	
Engineers	430	367	63	315	60	19	65	36	36	
Electrical and electronic engineers	174	169	5	153	5	5	23	84	—	
Mechanical engineers	157	157	—	157	—	—	—	—	—	
Chemical engineers	116	116	—	116	—	—	—	—	—	
Other engineers	304	255	49	222	63	31	23	30	—	
Surveyors and mapping scientists	21	15	6	15	6	21	—	30	—	
Computer systems analysts and scientists	7 226	4 841	2 385	4 841	2 041	199	172	104	126	
Operations and systems researchers and analysts	4 598	2 793	1 805	2 447	1 054	154	76	140	41	
Mathematical scientists	725	275	450	267	148	21	47	12	12	
Natural scientists	356	199	157	164	142	15	15	19	—	
Chemists, except biochemists	104	57	47	50	40	7	8	—	—	
Other natural scientists	252	142	110	114	102	8	7	19	—	
Health diagnosing occupations	164	107	57	93	50	—	—	—	—	
Health assessment and treating occupations	931	100	831	87	746	8	51	—	13	
Registered nurses	812	54	758	46	684	8	40	—	23	
Other health assessment and treating occupations	119	46	73	41	62	—	11	—	23	
Teachers, except postsecondary	1 063	672	391	431	365	30	21	19	5	
Social scientists and urban planners	7 079	4 419	2 660	3 937	2 457	148	78	201	63	
Social and recreation workers	599	137	462	2 118	408	10	30	—	27	
Lawyers and judges	3 740	2 987	753	2 911	685	37	30	93	40	
Writers, artists, entertainers, and officials	7 787	3 434	4 353	3 147	3 935	151	290	184	137	
Other professional specialty occupations	1 002	352	650	331	528	12	99	25	12	
Technical, sales, and administrative support occupations	1 465 963	225 670	1 240 293	182 722	1 070 707	27 402	113 122	16 745	68 743	
Technicians and related support occupations	22 838	13 563	9 275	11 685	7 599	905	977	506	347	
Health technologists and technicians	199	111	33	97	285	—	—	—	—	
Licensed practical nurses	259	78	181	166	132	—	34	—	11	
Other health technologists and technicians	—	—	—	—	—	—	—	—	—	
Engineering and science technicians	1 768	1 177	591	986	520	120	64	76	41	
Electrical and electronic technicians	895	654	239	543	219	70	15	33	30	
Industrial and mechanical engineering technicians	101	31	12	31	56	—	—	—	—	
Drafting and surveying technicians	385	262	123	195	99	39	24	32	20	
Other engineering and science technicians	387	228	159	217	146	11	11	11	15	
Technicians, except health, engineering, and science	20 612	12 275	8 337	10 602	6 794	785	865	430	295	
Airplane pilots and navigators	182	176	6	164	6	—	—	—	—	
All traffic controllers and broadcast equipment operators	89	58	31	94	21	5	10	5	—	
Computer programmers	16 171	10 632	5 539	9 267	4 609	616	445	359	166	
Other technicians, except health, engineering, and science	4 170	1 409	2 761	1 122	2 158	164	410	66	129	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see appendix A.]

United States	Banking and credit agencies									
	Race									
	Total		White		Black		Spanish origin ¹		Median age	
	Both sexes	Male	Female	Male	Female	Male	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	49 147	21 834	27 313	20 437	24 472	1 831	483	1 635	36.8	31.6
Supervisors and proprietors, sales occupations	3 540	2 105	1 435	2 034	1 175	49	83	33	35.8	33.2
Subsidiary	3 539	2 084	1 455	2 034	1 175	32	83	33	35.7	33.2
Self-employed	24 843	16 849	7 994	16 010	7 292	476	406	403	37.4	32.2
Sales representatives, finance and business services	83	17	16	17	16	—	—	—	48.4	—
Sales representatives, commodities, except retail	20 582	2 807	17 775	2 514	15 751	161	194	194	34.1	31.0
Sales workers, retail and personal services	19 636	2 545	17 091	2 284	15 336	138	161	166	34.2	31.1
Cashiers	744	236	508	230	415	43	33	28	32.5	25.3
Other sales occupations, retail and personal services	329	62	267	62	238	17	5	5	30.2	30.8
Sales related occupations	1 393 978	190 273	1 203 705	150 400	1 038 436	25 828	15 556	66 761	29.6	29.9
Administrative support occupations, including clerical	81 535	27 603	53 932	24 039	29 893	2 392	1 819	2 709	34.9	34.5
Supervisors, administrative support occupations	35 940	15 676	20 264	11 324	15 758	2 558	1 967	2 237	27.8	28.4
Computer equipment operators	204 971	1 701	203 270	1 701	179 544	303	1 274	1 163	33.6	30.4
Secretaries, stenographers, and typists	173 152	1 701	171 451	1 652	156 415	123	72	9 184	31.0	30.8
Secretaries	31 839	548	31 291	282	22 949	180	91	2 758	31.0	27.5
Stereographers and typists	13 842	220	13 622	144	11 931	60	14	2 908	34.0	27.5
Receptionists	31 884	4 983	26 901	4 244	23 288	467	114	1 479	31.5	29.7
Other information clerks	19 512	1 847	17 665	1 304	13 667	391	257	1 479	31.5	29.7
File clerks	21 333	4 623	16 710	3 629	14 196	688	168	1 327	25.1	25.1
Other records processing occupations, except financial	151 170	14 707	136 463	11 587	120 308	1 934	1 194	6 575	29.3	30.7
Bookkeepers, accounting, and auditing clerks	4 191	442	3 749	251	3 003	80	43	207	30.2	32.7
Payroll and timekeeping clerks	36 124	3 758	32 366	2 458	26 223	781	429	525	25.1	25.1
Other financial records processing occupations	8 016	187	7 829	124	6 936	53	712	301	28.8	40.8
Telephone operators	22 130	15 946	6 184	11 658	4 620	3 425	1 201	306	35.4	28.0
Mail and message distributing occupations	7 170	1 865	5 305	1 210	4 089	419	339	399	33.0	30.3
Production coordinators and expeditors	1 708	1 005	703	320	121	609	107	90	29.2	30.3
Traffic, shipping, and receiving clerks	3 835	2 480	1 355	1 900	1 120	180	164	86	28.8	29.0
Stock and inventory clerks	67 467	19 672	47 795	17 276	40 927	31	33	38	31.9	37.2
Other material recording, scheduling, and distributing clerks	27 465	2 124	25 341	1 254	17 274	549	118	2 840	30.8	29.7
Adjusters and investigators	654 817	70 295	584 522	54 892	507 846	9 393	6 477	31 382	25.1	25.1
Date-entry keyers	56 333	35 858	20 475	25 958	14 294	8 250	2 599	1 368	53.1	49.7
Other administrative support occupations	16 017	14 801	1 216	11 478	896	2 736	1 040	82	55.1	32.8
Service occupations	15 389	14 228	1 161	10 987	841	2 660	1 034	75	49.3	43.1
Private household occupations	40 316	21 057	19 259	14 480	5 514	5 172	1 559	1 286	51.2	50.3
Protective service occupations	4 043	1 053	2 990	491	2 095	413	194	173	36.6	30.9
Guards	492	110	382	71	237	39	—	—	27.9	40.9
Service occupations, except protective and household	34 617	19 680	14 937	13 789	10 293	4 991	1 357	1 033	52.0	51.0
Food preparation and service occupation	1 164	214	950	129	773	71	6	63	34.3	47.3
Health service occupations	653	558	95	404	70	89	93	14	51.3	30.9
Cleaning and building service occupations, except household	10 726	7 877	2 849	6 864	2 520	637	540	186	41.5	34.2
Personal service occupations	3 178	2 725	453	2 342	349	213	218	36	37.9	30.1
Farming, forestry, and fishing occupations	204	153	51	149	21	4	—	—	42.5	30.0
Precision production, craft, and repair occupations	275	275	15	225	15	35	—	—	36.8	30.0
Mechanics and repairers	690	618	72	557	51	39	38	12	34.8	28.9
Supervisors, mechanics and repairers	89	55	34	50	28	5	—	—	45.4	33.1
Automobile mechanics, including body	227	227	—	185	—	37	17	—	34.4	—
Industrial machinery repairers	1 693	1 412	281	1 176	234	93	163	24	38.7	30.0
Electronic repairers, communications and industrial equipment	2 729	2 390	339	2 150	281	151	139	20	47.2	33.8
Heating, air conditioning, and refrigeration mechanics	815	649	166	615	156	42	17	11	50.5	36.9
Other mechanics and repairers	732	706	26	645	32	22	48	—	78.6	96.4
Construction trades	496	461	35	411	116	12	41	—	45.9	35.7
Supervisors, construction occupations	357	355	2	316	9	34	12	—	71.6	14.3
Carpenters	122	106	16	92	6	21	—	—	100.0	100.0
Electricians	185	106	79	71	63	18	21	9	48.4	35.9
Painters, construction and maintenance	—	—	—	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—
Other construction trades	—	—	—	—	—	—	—	—	—	—
Persons of Spanish origin may be of any race.										

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States						Banking and credit agencies				Percent completed 4 or more years of college		Percent self-employed			
	Total		Race		Black		Spanish origin ¹		Median age						Percent high school graduates	
	Both sexes	Male	Female	Male	White	Female	Male	Female	Male	Female					Male	Female
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extracraft occupations	30	20	10	20	10	10	—	—	32.7	27.9	100.0	100.0	—	—		
Precision production occupations	4 789	2 742	2 047	2 352	1 880	127	183	130	40.4	36.0	85.7	90.5	21.3	5.3		
Supervisors, production occupations	3 387	1 603	1 784	1 401	1 662	94	101	117	32.8	29.3	76.9	91.3	31.0	5.8		
Precision metalworking occupations	175	143	32	116	20	5	18	5	32.8	29.3	76.9	100.0	4.9	15.6		
Tool and die makers	144	124	20	97	13	—	18	—	32.7	30.7	75.0	100.0	5.6	—		
Mechanists	15	8	7	11	7	—	—	—	31.7	30.0	75.0	100.0	—	—		
Sheet metal workers	16	15	1	11	3	—	—	—	34.2	25	54.5	100.0	—	—		
Other precision metal workers	15	15	—	11	3	—	—	—	34.2	25	54.5	100.0	—	—		
Precision textile, apparel, and furnishings machine workers	131	65	66	55	50	7	—	—	45.4	27.0	89.9	75.8	8.7	—		
Precision food production occupations	131	65	66	55	50	7	—	—	45.4	27.0	89.9	75.8	8.7	—		
Precision inspectors, testers, and related workers	80	44	36	37	36	—	—	—	47.5	29.3	100.0	94.4	29.5	—		
Plant and system operators	914	847	67	707	61	102	52	7	38.4	29.3	71.1	91.0	6.8	—		
Other precision production occupations	87	31	56	31	48	—	12	7	38.4	29.3	71.1	91.0	12.9	—		
Operators, fabricators, and laborers	16 083	10 157	5 926	7 394	4 480	2 145	957	286	36.2	30.9	65.9	81.0	5.7	4.2		
Machine operators, assemblers, and inspectors	7 698	3 479	4 219	2 454	3 128	740	254	222	31.3	29.7	81.5	83.1	7.6	4.8		
Metal and plastic working machine operators	6 334	2 901	3 433	2 082	2 590	575	221	184	32.2	29.7	81.4	82.6	7.0	5.1		
Metal and plastic processing and woodworking machine operators	234	74	160	48	115	16	17	6	25.0	29.6	85.1	62.5	9.5	7.5		
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Metal and plastic processing and woodworking machine operators	82	60	22	33	16	21	4	6	41.2	25.8	83.3	100.0	—	—		
Printing machine operators	2 396	1 542	854	1 086	648	337	119	26	33.4	29.6	83.1	82.9	5.3	4.1		
Textile machine operators	50	21	29	21	28	—	14	9	42.9	36.9	100.0	100.0	33.3	13.8		
Textile sewing machine operators	34	—	34	—	—	—	—	—	—	—	44.1	—	—	—		
Laundering and dry cleaning machine operators	31	—	31	—	—	—	—	—	—	—	—	—	—	—		
Packaging and filling machine operators	12	6	6	41	—	—	—	—	25	25.0	100.0	50.0	16.7	—		
Furnace, kiln, and oven operators, except food	48	48	—	334	471	45	13	28	55.0	—	81.3	—	—	—		
Other specified machine operators	947	379	568	334	471	69	13	28	26.7	28.9	77.8	84.7	4.7	7.0		
Miscellaneous and not specified machine operators	2 500	771	1 729	513	1 246	156	54	109	32.3	29.8	78.7	84.8	11.5	4.8		
Fabricators, assemblers, and hand working occupations	534	190	344	122	251	68	16	8	33.5	31.0	77.4	84.9	11.1	3.2		
Welders and cutters	138	44	94	44	68	21	12	—	40.3	28.3	65.9	85.1	—	—		
Solders and brazers	23	17	6	6	6	11	—	—	30.0	25	100.0	100.0	—	—		
Assemblers	188	78	110	44	83	34	4	8	29.0	32.8	64.1	80.0	12.8	—		
Hand working occupations	185	51	134	28	94	23	—	—	31.2	31.1	100.0	88.1	21.6	8.2		
Production inspectors, testers, samplers, and weighers	830	388	442	250	287	97	17	30	25	28.8	83.8	85.3	10.8	3.8		
Graders and sorters, except agricultural	613	258	355	150	235	73	17	26	25	27.6	83.3	87.0	5.8	4.8		
Other production inspectors, testers, samplers, and weighers	217	130	87	100	52	24	—	4	32.6	37.4	80.8	78.2	20.8	—		
Transportation and material moving occupations	5 633	4 823	810	3 601	712	977	459	12	46.0	35.5	58.4	82.5	4.0	2.8		
Transportation occupations	4 890	4 560	330	3 395	276	942	431	7	46.9	32.9	57.8	66.7	3.8	2.4		
Motor vehicle operators	4 839	4 538	301	3 381	258	934	431	7	47.0	33.2	57.6	66.1	3.8	2.7		
Truck drivers	2 013	1 881	132	1 385	115	385	213	7	34.0	32.4	63.7	80.3	3.1	1.5		
Driver-sales workers	155	155	—	149	155	6	218	—	32.7	—	83.9	—	3.2	—		
Other motor vehicle operators	2 671	2 502	169	1 847	143	543	26	—	58.7	34.4	51.4	55.0	4.4	3.6		
Rail and water transportation occupations	51	22	29	14	18	8	—	—	40.0	30.9	100.0	72.4	—	—		
Material moving equipment operators	743	263	480	206	436	35	28	5	37.8	37.8	68.8	93.3	8.7	3.1		
Supervisors, material moving equipment operators	45	31	14	24	9	7	—	—	55.9	27.2	54.8	100.0	—	—		
Crane, hoist and winch operators	23	16	7	6	7	2	8	—	52.5	40.0	—	—	—	—		
Excavating, grading, and dozer machine operators	25	25	—	25	—	—	—	—	33.3	—	64.0	—	32.0	—		
Other material moving equipment operators	650	191	459	151	420	26	20	5	35.3	38.6	77.5	93.0	7.9	3.3		
Handlers, equipment cleaners, helpers, and laborers	2 752	1 855	897	1 339	640	428	244	52	33.4	34.0	56.1	69.9	6.6	2.8		
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	117	80	37	71	33	9	—	—	40.3	37.8	100.0	70.3	18.8	—		
Helpers, craft and production	118	81	37	66	24	10	4	5	32.2	34.2	40.7	86.5	—	—		
Construction laborers	130	125	5	83	5	42	14	—	46.3	50.0	44.8	100.0	16.8	—		
Freight, stock, and material handlers	721	435	286	327	220	91	46	17	25	29.8	58.4	70.3	2.5	5.9		
Garage and service station attendants, and equipment cleaners	184	167	17	79	5	78	18	5	28.2	30.8	62.9	100.0	—	—		
Hand packers and packagers	200	47	153	32	70	15	—	11	25	36.7	57.4	66.0	37.4	—		
Laborers, except construction	1 282	920	362	681	283	183	162	14	41.6	35.9	52.8	67.7	7.2	0.6		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Insurance											
	Total						Spanish origin ¹		Median age		Percent high school graduates	
	Both sexes		Male		Female		Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	1 904 554	823 741	1 080 813	762 962	937 289	40 989	105 520	21 259	41 598	39.8	94.4	92.2
Managerial and professional specialty occupations	326 694	204 878	121 816	194 396	108 743	6 579	9 217	3 257	3 259	33.5	97.7	96.4
Executive, administrative, and managerial occupations	268 861	168 971	99 890	160 346	89 113	5 588	7 612	2 776	2 765	33.8	97.5	96.1
Financial managers, administrators, and public relations	7 497	5 375	2 122	13	10	92	124	62	40	25	100.0	100.0
Managers, except health	30 431	28 396	2 035	27 320	1 921	783	90	474	84	34.4	98.8	95.9
Managers, except health	191	137	54	137	47	783	90	474	84	45.0	96.4	97.8
Managers, except health	8 125	5 122	3 003	4 798	2 676	274	254	54	61	35.1	96.8	94.7
Managers, except health	135 208	69 530	45 678	86 284	41 293	2 096	2 466	1 270	1 004	41.5	97.4	96.0
Managers, except health	130 616	66 187	44 429	83 051	41 090	2 023	2 427	1 241	985	43.8	97.5	96.0
Managers, except health	4 592	3 343	1 249	3 233	1 203	73	39	29	19	51.2	94.8	96.2
Self-employed	87 386	40 398	46 988	36 646	40 263	2 343	4 671	916	1 576	34.9	98.3	96.3
Management related occupations	36 133	18 315	17 818	16 309	14 593	1 722	1 967	486	404	31.3	97.2	96.5
Accountants and auditors	12 028	4 681	7 347	4 348	6 328	281	897	86	284	37.8	97.6	96.7
Personnel, training, and labor relations specialists	1 940	867	1 073	3 344	1 984	35	225	37	32	30.5	92.7	96.9
Buyers and purchasing agents	5 082	3 530	1 552	3 844	1 784	111	225	28	32	30.9	94.9	94.7
Inspectors and compliance officers	32 203	13 005	19 198	11 856	17 072	743	1 603	289	665	34.3	98.5	96.1
Other management related occupations	57 833	35 907	21 926	34 050	19 630	991	1 605	481	494	35.5	98.8	97.5
Professional specialty occupations	6 567	6 025	542	5 706	437	163	40	75	40	37.6	97.1	95.1
Engineers, architects, and surveyors	6 216	5 186	390	5 167	436	163	40	75	40	37.6	97.1	95.1
Architects	6 327	5 815	512	5 317	431	144	40	75	40	37.9	97.0	96.0
Engineers	1 072	1 027	46	517	431	52	40	15	5	41.0	93.9	88.9
Civil engineers	114	71	40	326	260	8	40	27	35	32.6	97.8	96.4
Electrical and electronic engineers	4 086	3 716	326	3 391	300	120	40	33	33	33.3	96.6	92.5
Mechanical engineers	406	406	16	527	55	4	—	—	—	41.0	99.0	100.0
Other engineers	433	578	55	527	55	4	—	—	—	32.2	99.0	100.0
Surveyors and mapping scientists	24	24	—	24	—	—	—	—	—	28.8	—	—
Computer systems analysts and scientists	9 618	5 971	3 647	5 624	3 206	167	297	120	114	33.9	99.1	97.3
Operations and systems researchers and analysts	5 903	3 242	2 661	3 031	2 388	112	230	76	46	35.2	97.8	97.0
Mathematical scientists	8 486	5 679	2 807	5 363	2 537	70	163	44	42	32.4	99.8	99.4
Natural scientists	320	106	214	100	178	6	9	6	11	33.0	100.0	100.0
Chemists, except biochemists	188	72	116	72	83	6	6	—	—	47.0	100.0	100.0
Other natural scientists	132	34	98	28	95	6	6	—	—	26.5	100.0	100.0
Health diagnosing occupations	931	610	321	577	202	13	66	4	16	32.2	97.2	96.3
Health assessment and treating occupations	3 886	300	3 586	272	3 337	9	162	—	—	34.9	95.3	95.9
Registered nurses	3 384	91	3 293	91	3 074	—	144	—	—	35.2	100.0	100.0
Other health assessment and treating occupations	502	209	293	181	263	—	18	—	—	33.8	97.2	97.2
Teachers, except postsecondary	550	293	257	273	209	14	36	—	—	32.7	98.0	94.6
Social scientists and urban planners	4 209	2 667	1 542	2 577	1 435	52	86	6	13	36.9	99.7	94.6
Social and recreation workers	560	198	362	176	266	22	93	—	—	33.7	100.0	92.8
Lower and judges	8 333	6 907	1 426	6 699	1 256	183	134	54	13	39.9	100.0	99.1
Writers, artists, entertainers, and athletes	7 095	3 443	3 652	3 255	3 325	95	218	97	111	31.3	100.0	96.4
Other professional specialty occupations	1 375	466	909	395	834	65	71	5	12	39.8	88.6	95.5
Technical, sales, and administrative support occupations	1 537 456	594 965	942 491	549 618	815 865	30 649	93 047	16 286	37 382	39.6	94.4	92.2
Technicians and related support occupations	36 791	19 444	17 347	17 545	15 112	978	1 405	613	519	31.0	97.5	96.8
Health technicians and technicians	1 062	264	798	226	698	4	89	6	17	33.5	100.0	89.8
Licensed practical nurses	479	34	445	34	395	—	50	—	—	31.0	100.0	90.3
Other health technicians and technicians	563	230	333	192	303	4	39	6	13	31.9	100.0	90.2
Engineering and science technicians	2 553	1 201	1 352	1 067	1 115	83	174	60	69	30.3	94.5	96.0
Electrical and electronic technicians	924	456	468	392	375	43	86	22	7	31.8	95.8	91.2
Industrial and mechanical engineering technicians	119	47	72	47	72	—	—	—	—	33.3	94.5	91.2
Drafting and surveying technicians	700	447	253	389	197	35	27	—	—	31.6	100.0	100.0
Other engineering and science technicians	810	251	559	239	471	5	61	38	26	30.3	89.5	88.0
Technicians, except health, engineering, and science	33 176	17 979	15 197	16 252	13 299	891	1 142	547	433	31.0	97.7	97.3
Airplane pilots and navigators	178	176	2	171	2	5	—	—	—	39.3	98.9	100.0
Air traffic controllers and broadcast equipment operators	133	66	67	66	49	—	18	7	—	29.3	100.0	94.0
Computer programmers	20 933	12 747	8 186	11 370	7 035	719	647	367	184	35.3	98.4	97.1
Other technicians, except health, engineering, and science	11 932	4 990	6 942	4 645	6 213	167	477	173	249	30.8	95.9	95.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

	Insurance										Percent completed 4 or more years of college		Percent self-employed		
	Race					Spanish origin ¹					Male	Female	Male	Female	
	Total		White		Black	Male	Female	Male	Female	Male					Female
	Male	Female	Male	Female	Male										
Employed persons 16 years and over—Con.															
Technical, sales, and administrative support occupations—Con.															
Sales occupations															
Supervisors and proprietors, sales occupations	574 334	428 121	146 213	130 171	17 786	12 205	10 126	4 605	33.8	41.5	40.3	93.3	18.4	4.6	
Self-employed	8 022	6 292	1 730	1 598	174	97	116	30	35.3	43.4	46.1	95.3	6.5	3.1	
Sales representatives, finance and business services	7 550	5 882	1 536	1 336	169	97	116	30	34.8	43.1	40.5	95.4	17.2	87.1	
Sales representatives, commodities, except retail	472	410	62	62	5	—	—	—	57.1	48.5	46.3	100.0	18.9	—	
Sales workers, retail and personal services	557 292	419 397	138 205	123 287	17 466	11 284	9 919	4 320	33.7	44.3	40.3	93.6	8.5	0.2	
Cashiers	6 865	718	6 147	538	91	824	62	243	33.3	30.0	22.7	85.9	7.7	0.1	
Other sales occupations, retail and personal services	5 386	304	5 082	213	62	708	49	181	36.0	37.6	13.5	73.4	7.9	0.6	
Sales related occupations	1 479	414	1 065	375	29	116	22	12	28.3	40.1	29.5	93.8	14.4	11.6	
Administrative support occupations, including clerical	926 331	147 400	778 931	670 582	11 885	79 437	5 547	32 258	34.7	30.8	41.4	91.8	2.2	0.3	
Supervisors, administrative support occupations	28 317	3 787	46 570	41 213	1 451	4 045	769	1 555	35.0	40.1	52.1	92.2	0.6	0.3	
Computer equipment operators	292 282	2 515	269 771	263 766	1 145	1 903	597	711	29.6	27.7	16.8	93.6	0.5	0.3	
Secretaries, stenographers, and typists	292 282	2 515	269 771	263 766	1 145	1 903	597	711	31.6	31.6	22.5	93.2	4.7	0.5	
Secretaries	69 818	824	68 994	10 456	171	9 352	77	7 030	32.4	36.1	26.4	94.0	5.2	0.5	
Stenographers and typists	12 132	265	11 867	207	43	1 043	82	3 709	25.9	27.9	14.6	90.7	0.8	0.2	
Other information clerks	4 745	508	4 237	504	45	1 043	18	143	25.9	27.9	34.7	88.9	4.8	0.4	
File clerks	36 788	2 893	33 895	1 974	672	5 881	214	2 043	33.0	30.1	40.0	93.5	2.6	0.4	
Other records processing occupations, except financial	49 937	5 345	44 592	4 773	633	5 456	192	1 923	30.1	31.2	7.7	79.0	7.7	0.2	
Bookkeepers, accounting, and auditing clerks	55 122	4 610	50 512	44 683	401	3 666	229	1 844	33.4	34.3	29.7	92.7	1.8	0.9	
Payroll and timekeeping clerks	2 577	147	2 430	275	114	1 189	—	—	32.7	35.8	4.8	93.1	6.0	0.3	
Other financial records processing occupations	34 463	2 501	31 962	27 540	215	2 882	127	1 088	30.4	30.4	31.9	93.7	0.8	0.1	
Telephone operators	3 648	96	3 552	7 070	25	510	205	205	36.8	25.9	11.5	84.2	1.5	0.2	
Mail and message distributing occupations	14 877	5 702	9 175	4 069	1 234	1 670	579	279	25.7	25.7	30.1	78.2	0.3	0.1	
Production coordinators and expeditors	6 531	1 201	5 330	927	152	962	112	334	32.4	30.7	29.7	88.2	0.7	0.1	
Traffic, shipping, and receiving clerks	1 133	688	445	393	207	36	54	36	29.9	29.9	3.5	80.9	0.5	—	
Stock and inventory clerks	2 832	1 687	1 145	925	270	157	93	50	25.6	27.6	28.1	81.1	1.4	—	
Other material recording, scheduling, and distributing clerks	2 278	360	1 918	1 546	32	313	46	96	26.9	26.9	6.7	92.5	3.8	0.1	
Adjusters and investigators	165 096	65 415	99 681	82 415	316	338	1 612	3 681	36.8	36.8	51.8	95.1	2.0	0.1	
Data-entry keyers	29 530	1 209	28 321	20 416	261	5 931	92	1 710	26.7	28.6	17.9	91.1	3.5	0.3	
Other administrative support occupations	111 587	11 310	100 277	83 337	1 588	12 711	687	4 896	30.1	31.3	25.0	89.0	0.1	0.3	
Service occupations	20 473	11 054	9 419	6 708	2 367	2 304	864	731	48.2	42.7	5.7	45.5	0.7	0.6	
Private household occupations	2 592	2 303	289	1 944	303	38	73	15	—	—	—	—	—	—	
Protective service occupations	2 230	1 954	276	1 399	279	38	73	15	28.7	51.0	10.1	77.5	—	—	
Guards	362	349	13	326	24	24	—	—	29.0	53.4	7.0	64.8	—	—	
Other protective service occupations	17 881	8 751	9 130	6 478	2 644	2 666	791	716	25.7	43.2	27.5	86.0	—	—	
Food preparation and service occupations	3 105	824	2 281	1 759	180	380	112	167	48.6	40.8	48.5	44.5	0.9	0.6	
Health service occupations	1 020	69	951	58	10	237	85	30	50.0	36.8	5.8	53.5	—	—	
Cleaning and building service occupations, except household	12 989	7 724	5 265	3 619	1 955	1 437	653	422	32.8	30.4	39.1	73.0	—	—	
Personal service occupations	767	134	633	441	19	170	26	42	41.1	50.4	3.9	33.7	0.9	0.9	
Farming, forestry, and fishing occupations	378	355	23	6	36	17	13	—	46.6	49.2	13.4	58.9	7.5	—	
Production, craft, and repair occupations	8 452	6 126	2 326	2 022	355	262	280	106	34.8	40.3	12.1	69.6	1.7	47.8	
Mechanics and repairers	1 711	1 466	245	210	93	22	61	25	31.8	37.5	18.4	92.2	2.4	2.0	
Supervisors, mechanics and repairers	130	86	44	44	11	—	—	—	40.7	47.3	7.6	100.0	—	—	
Automobile mechanics, including body	190	169	21	154	15	—	11	—	58.1	38.3	8.3	100.0	3.6	—	
Industrial machinery repairers	318	282	36	32	19	—	7	4	25.8	25.8	2.8	100.0	—	—	
Electronic equipment, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Heating, air conditioning, and refrigeration mechanics	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other mechanics and repairers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Construction trades	1 919	1 810	109	1 647	128	30	92	—	35.0	46.9	26.4	100.0	24.5	—	
Supervisors, construction occupations	313	283	30	30	31	—	—	—	38.1	41.7	9.9	100.0	1.5	—	
Carpenters	465	536	6	526	10	—	—	—	71.5	76.0	6.2	90.8	4.5	1.8	
Electricians	448	448	17	424	24	—	20	—	77.4	100.0	20.5	100.0	6.5	—	
Painters, construction and maintenance	361	341	20	424	17	—	26	—	76.1	100.0	1.8	100.0	—	—	
Plumbers, pipefitters, and steamfitters	156	145	11	124	11	—	7	—	43.9	39.5	—	100.0	4.2	10.0	
Other construction trades	82	57	25	5	8	20	—	—	77.9	30.6	—	100.0	4.8	—	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Insurance													
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		Black											
	Both sexes	Male	Female	White	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Extrusive occupations	4 822	2 850	1 972	2 649	1 733	134	210	81	34.9	89.2	91.3	31.8	11.5	1.3
Precision production occupations	3 790	1 975	1 815	1 835	1 607	103	195	68	40.1	94.2	92.5	42.7	10.7	1.3
Supervisors, production occupations	98	86	12	85	6	—	—	—	37.0	100.0	100.0	8.1	100.0	1.2
Precision metalworking occupations	14	8	6	8	—	—	—	—	34.1	100.0	100.0	—	—	—
Tool and die makers	54	54	—	54	—	—	—	—	37.0	100.0	100.0	87.5	—	12.5
Machinists	8	8	—	8	—	—	—	—	35.0	100.0	100.0	—	—	—
Sheet metal workers	22	16	6	16	6	—	—	—	35.0	100.0	100.0	—	—	—
Other precision metal workers	63	39	24	39	16	—	8	13	43.1	100.0	100.0	—	—	—
Precision textile, apparel, and furnishings machine workers	126	91	35	78	19	7	—	—	34.8	100.0	100.0	—	—	—
Precision food production occupations	56	48	8	48	—	—	—	—	34.8	100.0	100.0	—	—	—
Precision inspectors, testers, and related workers	547	536	11	498	11	15	7	—	44.7	100.0	100.0	10.4	100.0	4.2
Plant and system operators	142	75	67	66	60	9	7	—	34.8	77.3	82.1	9.3	100.0	12.0
Other precision production occupations	11 101	6 363	4 738	4 970	3 945	1 003	673	120	30.8	74.7	84.0	6.8	5.4	0.5
Operators, fabricators, and laborers	7 956	3 978	3 978	3 130	3 345	566	527	339	31.3	83.3	85.6	8.5	4.8	0.9
Machinists, except precision	6 739	3 319	3 420	2 510	2 895	552	444	85	30.3	82.5	86.0	4.4	4.7	0.2
Metalworking and plastic working machine operators	107	10	97	10	82	—	—	—	40.0	100.0	100.0	—	—	—
Metalworking machine operators, n.e.c.	12	6	6	6	—	—	—	—	60.0	100.0	100.0	—	—	—
Metal and plastic processing and woodworking machine operators	239	129	110	82	110	40	—	19	25.9	82.2	89.1	—	—	—
Printing machine operators	3 331	2 280	1 051	1 736	1 12	359	121	212	30.4	83.5	85.8	2.6	6.9	0.3
Textile machine operators	28	6	22	—	—	—	—	6	30.0	100.0	100.0	100.0	—	—
Textile sewing machine operators	35	6	29	6	18	—	11	—	50.0	100.0	100.0	—	—	—
Laundry and dry cleaning machine operators	43	22	21	—	18	15	3	7	32.3	52.5	68.2	—	—	—
Packaging and filling machine operators	24	6	18	—	—	—	—	—	30.0	25	—	—	—	—
Furnace, kiln, and oven operators, except food	85	85	—	75	—	10	—	12	48.8	67.1	83.6	12.5	4.5	1.7
Other specified machine operators	1 160	321	839	267	682	29	127	18	25	30.3	89.4	88.9	4.2	0.4
Miscellaneous and not specified machine operators	1 675	448	1 227	322	1 043	99	165	25	31.1	77.9	88.9	7.6	4.2	—
Fabricators, assemblers, and hand working occupations	448	120	328	116	270	4	53	8	26.9	89.2	83.5	20.0	5.2	1.5
Welders and others	34	19	15	15	15	4	—	—	55.5	36.7	100.0	—	—	—
Solders and brazers	370	85	285	85	227	—	53	—	25	94.1	81.1	28.2	4.2	—
Assemblers	44	16	28	16	28	—	—	—	40.0	100.0	100.0	—	—	—
Hand working occupations	769	539	230	504	180	10	30	14	40.9	98.8	93.5	31.2	17.9	17.9
Production inspectors, testers, samplers, and weighers	101	14	87	8	67	—	12	6	26.3	34.7	78.2	42.9	5.7	2.6
Graders and sorters, except agricultural	668	525	143	496	111	10	18	—	41.7	88.0	86.7	30.9	9.1	5.3
Other production inspectors, testers, samplers, and weighers	1 307	1 145	162	803	133	288	23	96	34.9	62.5	96.9	1.6	3.7	0.3
Transportation and material moving occupations	1 074	967	107	671	96	242	5	91	26.9	63.8	95.3	1.9	—	0.3
Motor vehicle operators	605	531	74	359	69	137	5	62	26.9	63.8	95.3	3.0	—	0.6
Truck drivers	55	49	6	35	5	14	—	29	27.8	40.0	100.0	4.1	—	—
Driver-sales workers	414	387	27	277	27	91	—	29	27.8	40.0	100.0	4.1	—	—
Other motor vehicle operators	233	178	55	132	37	46	18	5	34.5	55.6	100.0	—	—	—
Rail and water transportation occupations	28	8	20	8	—	—	—	—	30.0	100.0	100.0	—	—	—
Supervisors, material moving equipment operators	20	20	—	20	—	—	—	—	25	90.0	—	—	—	—
Crane, hoist, and winch operators	185	150	35	104	17	46	18	5	36.5	48.7	100.0	—	—	—
Excavating, grading, and dozer machine operators	1 838	1 240	598	1 037	467	149	123	124	25.7	58.4	69.9	6.0	9.5	0.4
Other material moving equipment operators	97	36	61	36	56	—	5	—	36.4	100.0	67.2	22.2	16.4	—
Handlers, equipment cleaners, helpers, and laborers	98	76	22	76	14	—	8	10	28.3	32.9	100.0	—	63.6	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	72	72	—	72	—	—	—	—	31.9	37.7	—	6.9	—	—
Helpers, craft and production	515	407	108	316	81	63	27	34	25	53.1	100.0	3.9	—	—
Construction laborers	46	27	19	11	19	10	—	—	25	28.0	92.6	22.2	31.6	—
Freight, stock, and material handlers	78	19	59	19	46	—	8	5	25	39.6	100.0	64.4	—	—
Garage and service station occupations, and equipment cleaners	932	603	329	507	251	76	75	80	26.8	59.7	57.8	6.6	8.2	0.8
Hand packers and packagers														
Laborers, except construction														

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	Other finance and real estate					
	Total		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed							
	Both sexes	Male	White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						
			Male	Female	Male	Female																
Employed persons 16 years and over																						
371 662	224 548	147 114	800 694	864 217	732 080	45 148	52 895	28 892	42.7	39.3	82.0	88.5	34.6	16.3	17.7	9.9						
Managerial and professional specialty occupations																						
Executive, administrative, and managerial occupations	345 806	208 605	137 201	205 326	134 262	10 899	11 067	5 028	43.2	40.1	88.1	86.3	46.2	21.0	13.8	7.3						
Officials and administrators, public administration	55	22	33	5	22	10 095	10 535	4 704	43.2	40.8	87.5	85.8	44.5	19.0	14.2	7.5						
Financial managers	8 423	6 157	3 716	5 719	3 437	168	120	58	38.2	39.2	98.0	97.5	71.5	32.2	6.5	2.2						
Managers, marketing, advertising, and public relations	14 328	11 260	7 108	10 919	5 311	20	262	93	41.3	39.2	96.4	96.5	53.2	29.2	9.7	8.4						
Administrators, education and related fields									44.0	43.4	87.4	86.0	44.2	29.5	—	17.8						
Managers, medicine and health	162 264	88 884	73 380	67 383	61 181	6 181	6 264	2 737	46.7	44.7	79.6	78.9	30.3	13.2	19.4	10.0						
Other specified managers	114 413	75 274	39 139	70 502	36 415	2 425	2 977	1 128	43.8	43.8	91.3	91.5	50.8	21.5	11.4	5.4						
Managers and administrators, n.e.c.	102 704	66 359	36 345	62 014	33 760	2 273	2 787	1 045	45.1	45.1	91.4	91.4	50.7	20.9	—	—						
Self-employed	11 709	8 915	8 488	2 794	2 655	132	190	83	49.6	48.9	87.2	87.2	58.7	28.5	95.9	75.3						
Management related occupations	45 338	26 802	18 536	24 591	16 143	1 189	912	688	37.6	33.3	96.7	96.4	64.3	32.6	8.5	2.4						
Accountants and auditors	23 045	13 332	9 713	12 107	8 302	599	496	375	34.6	32.9	98.6	96.9	71.6	38.5	3.5	1.0						
Personnel, training, and labor relations specialists	3 585	1 817	1 337	1 537	1 152	132	122	32	41.1	33.2	88.7	91.8	39.9	16.4	16.5	6.0						
Buyers and purchasing agents	2 012	1 152	768	1 037	729	28	90	32	40.3	34.5	90.5	88.1	25.3	29.7	4.4	3.2						
Inspectors and compliance officers	1 853	1 453	1 317	1 227	1 077	243	90	32	45.6	39.6	82.9	87.1	69.8	25.6	16.2	9.7						
Other management related occupations									39.6	33.7	98.7	97.1	—	—	—	—						
Professional specialty occupations	25 856	15 943	14 548	8 401	5 804	804	532	324	36.5	33.3	96.1	94.1	68.1	49.6	9.3	3.8						
Engineers, architects, and surveyors	4 869	4 518	4 137	351	137	137	213	110	38.5	30.1	94.9	100.0	62.8	61.3	9.8	9.4						
Architects	2 231	2 029	1 820	202	75	75	122	—	35.8	29.9	95.7	100.0	72.4	70.3	14.2	6.4						
Engineers	2 344	2 197	1 977	147	112	112	32	—	41.8	30.5	94.6	100.0	65.3	49.7	4.8	13.6						
Civil engineers	700	685	625	22	8	8	—	—	38.3	25	100.0	100.0	55.9	60.0	3.8	—						
Electrical and electronic engineers	269	247	222	232	22	11	—	—	50.0	30.0	77.7	100.0	55.9	—	2.4	—						
Industrial engineers	102	94	8	94	8	13	—	—	39.4	32.8	96.4	100.0	28.4	—	8.3	19.6						
Mechanical engineers	359	359	324	87	22	30	31	—	44.7	30.0	92.1	100.0	20.2	—	16.4	—						
Other engineers	914	812	719	102	10	10	—	—	34.9	30.0	92.1	100.0	20.2	—	—	—						
Surveyors and mapping scientists	294	292	2	—	—	—	—	—	—	—	—	—	—	—	—	—						
Computer systems analysts and scientists	1 207	821	774	321	29	29	35	15	32.9	31.1	98.8	94.8	53.3	65.5	1.5	—						
Operations and systems researchers and analysts	763	529	234	467	207	25	22	—	34.2	30.9	97.3	94.0	52.7	51.6	6.1	17.1						
Mathematical scientists	263	263	238	267	4	4	10	—	38.6	30.3	97.0	95.4	70.1	38.5	8.5	10.8						
Natural scientists	532	402	372	121	5	5	9	—	37.0	25	100.0	100.0	76.1	32.1	—	—						
Chemists, except biochemists	116	88	73	28	9	9	—	—	39.1	32.9	96.2	94.1	68.5	40.2	10.8	13.7						
Other natural scientists	416	314	299	121	28	28	—	—	45.8	34.4	100.0	100.0	93.6	58.1	30.2	—						
Health diagnosing occupations	203	172	31	172	31	5	60	—	37.3	40.8	70.3	94.5	48.6	42.0	6.8	—						
Health assessment and treating occupations	436	74	362	69	297	5	218	—	31.0	42.8	83.3	97.1	55.6	36.0	—	—						
Registered nurses	290	18	272	18	218	—	—	—	—	—	—	—	—	—	—	—						
Other health assessment and treating occupations	146	56	51	79	—	5	11	—	41.9	33.0	86.1	86.7	46.4	60.0	8.9	—						
Teachers, except postsecondary	501	224	196	221	23	23	56	2	34.6	42.4	96.9	91.7	40.6	56.3	12.1	2.5						
Social scientists and urban planners	2 876	1 845	1 736	972	79	79	52	56	36.0	31.5	99.4	99.6	78.0	60.9	13.2	2.3						
Social and recreation workers	2 328	307	356	917	249	668	62	111	32.2	37.3	88.6	88.6	50.9	36.8	3.9	1.6						
Lawyers and judges	4 086	3 303	3 229	748	45	45	24	20	36.3	32.6	99.8	97.8	76.6	74.3	9.9	2.7						
Writers, artists, entertainers, and athletes	6 191	2 560	3 431	3 407	159	183	97	96	37.8	32.9	91.5	92.8	45.0	44.3	9.1	5.3						
Other professional specialty occupations	1 281	3 564	491	606	44	68	27	20	38.3	37.0	98.6	94.6	64.7	47.6	10.6	2.6						
Technical, sales, and administrative support occupations	1 111 962	506 779	479 118	563 928	15 589	25 341	13 380	19 396	43.5	39.1	93.1	92.3	43.5	16.2	26.2	11.1						
Technicians and related support occupations	19 472	9 864	8 906	8 877	534	389	424	315	33.8	32.8	93.8	92.6	37.8	12.8	11.9	8.1						
Health technicians and technicians	136	29	29	77	—	—	—	—	31.3	34.5	100.0	93.5	75.9	15.9	—	—						
Licensed practical nurses	78	29	29	48	—	—	—	—	31.3	34.5	100.0	91.0	75.9	21.6	—	—						
Other health technicians and technicians	58	29	29	29	—	—	—	—	31.3	34.5	100.0	91.0	75.9	21.6	—	—						
Engineering and science technicians	2 653	2 031	1 766	492	171	67	149	61	33.9	30.3	87.3	86.2	27.6	25.9	6.5	2.9						
Electrical and electronic technicians	433	314	282	74	30	33	34	19	30.9	27.6	91.1	81.5	11.1	10.9	6.4	—						
Industrial and mechanical technicians	46	37	35	2	—	—	—	—	30.0	30.0	100.0	100.0	56.8	100.0	—	—						
Drafting and surveying technicians	1 422	1 120	922	262	93	14	96	15	32.9	30.9	83.4	87.7	20.0	25.8	3.2	2.3						
Other engineering and science technicians	752	192	499	147	48	20	19	27	40.1	30.8	92.1	85.9	50.0	31.8	13.6	5.7						
Technicians, except health, engineering, and science	16 683	7 804	7 111	8 328	363	301	275	242	33.8	33.0	95.4	93.0	40.3	19.4	13.3	8.6						
Airplane pilots and navigators	232	232	232	—	—	—	—	—	33.8	33.8	100.0	100.0	27.1	12.7	—	—						
Air traffic controllers and broadcast equipment operators	2 445	1 831	1 545	1 672	132	6	2	2	36.1	28.5	98.7	98.7	45.0	34.3	1.3	—						
Computer programmers	2 645	1 831	1 545	1 672	132	6	2	2	36.1	28.5	98.7	98.7	45.0	34.3	1.3	—						
Other technicians, except health, engineering, and science	13 556	5 677	5 275	7 489	231	193	179	193	35.0	33.5	94.1	92.9	39.0	18.1	17.9	9.7						

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States											
Other finance and real estate											
Employed persons 16 years and over—Con.											
Technical, sales, and administrative support occupations—Con.											
Sales occupations											
Supervisors and proprietors, sales occupations											
Sales representatives, finance and business services											
Sales representatives, commodities, except retail											
Sales workers, retail and personal services											
Cashiers											
Other sales occupations, retail and personal services											
Sales related occupations											
Administrative support occupations, including clerical											
Supervisors, administrative support occupations											
Computer equipment operators											
Secretaries, stenographers, and typists											
Stenographers and typists											
Receptionists											
Other information clerks											
File clerks											
Other records processing occupations, except financial											
Bookkeepers, accounting, and auditing clerks											
Payroll and timekeeping clerks											
Other financial records processing occupations											
Telephone operators											
Mail and message distributing occupations											
Production coordinators and expeditors											
Traffic, shipping, and receiving clerks											
Stock and inventory clerks											
Other material recording, scheduling, and distributing clerks											
Admission and investigation											
Data-entry keyers											
Other administrative support occupations											
Service occupations											
Private household occupations											
Protective service occupations											
Guards											
Other protective service occupations											
Service occupations, except protective and household											
Food preparation and service occupations											
Health service occupations											
Cleaning and building service occupations, except household											
Personal service occupations											
Farming, forestry, and fishing occupations											
Precision production, craft, and repair occupations											
Mechanics and repairers											
Supervisors, mechanics and repairers											
Automobile mechanics, including body											
Industrial machinery repairers											
Electronic repairers, communications and industrial equipment											
Heating, air conditioning, and refrigeration mechanics											
Other mechanics and repairers											
Construction trades											
Supervisors, construction occupations											
Carpenters											
Electricians											
Painters, construction and maintenance											
Plumbers, pipefitters, and steamfitters											
Other construction trades											
Persons of Spanish origin may be of any race.											

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Other finance and real estate										Percent completed 4 or more years of college				Percent self-employed			
	Median age										Percent high school graduates				Percent completed 4 or more years of college			
	Spanish origin ¹		Male		Female		Male		Female		Male		Female		Male		Female	
Both sexes	Total		White		Black		Male		Female		Male		Female		Male		Female	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.																		
Extrusive occupations	134	122	116	12	4	—	3	—	33.6	76.2	100.0	—	33.6	76.2	100.0	—	33.6	76.2
Extrusive occupations	9 142	8 383	6 808	635	1 308	82	499	94	35.7	71.5	73.0	—	35.7	71.5	73.0	—	35.7	71.5
Extrusive occupations	3 223	2 700	2 216	461	406	33	173	46	38.3	78.9	79.5	—	38.3	78.9	79.5	—	38.3	78.9
Extrusive occupations	549	521	415	19	66	9	84	7	25	55.3	100.0	—	25	55.3	100.0	—	25	55.3
Precision metalworking occupations	14	14	14	—	—	—	9	—	—	100.0	—	—	—	100.0	—	—	—	—
Tool and die makers	208	185	152	14	33	9	7	7	25	61.1	100.0	—	25	61.1	100.0	—	25	61.1
Mechanics	37	32	23	5	9	—	—	—	30.0	78.1	100.0	—	30.0	78.1	100.0	—	30.0	78.1
Sheet metal workers	290	290	226	—	64	—	48	—	44.4	46.9	—	—	44.4	46.9	—	—	44.4	46.9
Other precision metal workers	79	52	21	15	31	7	13	13	40.0	32.7	—	—	40.0	32.7	—	—	40.0	32.7
Precision textile, apparel, and furnishings machine workers	157	102	76	48	30	7	10	—	37.5	57.8	83.6	—	37.5	57.8	83.6	—	37.5	57.8
Precision food production occupations	68	68	35	26	33	—	—	—	31.4	31.4	—	—	31.4	31.4	—	—	31.4	31.4
Precision inspectors, testers, and related workers	4 837	4 795	3 927	26	701	16	218	26	41.9	70.5	59.5	—	41.9	70.5	59.5	—	41.9	70.5
Plant and system operators	229	145	85	68	60	—	—	—	42.4	60.0	46.4	—	42.4	60.0	46.4	—	42.4	60.0
Other precision production occupations	30 709	27 048	20 006	2 710	5 254	735	3 337	240	35.8	50.4	70.9	—	35.8	50.4	70.9	—	35.8	50.4
Operators, fabricators, and laborers	7 053	5 332	3 776	1 244	1 177	244	654	157	36.6	42.1	82.5	—	36.6	42.1	82.5	—	36.6	42.1
Machine operators, assemblers, and inspectors	5 437	4 111	2 866	1 091	972	152	505	142	37.3	40.6	81.9	—	37.3	40.6	81.9	—	37.3	40.6
Machine operators and tenders, except precision	139	118	66	9	42	—	4	—	49.0	36.4	42.9	—	49.0	36.4	42.9	—	49.0	36.4
Machine operators and plastic working machine operators	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metallurgical machine operators, n.e.c.	119	57	48	62	9	—	10	7	32.9	84.2	90.3	—	32.9	84.2	90.3	—	32.9	84.2
Fabricating machine operators, n.e.c.	62	223	391	205	125	—	84	42	32.4	78.5	98.2	—	32.4	78.5	98.2	—	32.4	78.5
Metal and plastic processing and woodworking machine operators	62	58	36	48	12	—	—	—	40.7	100.0	—	—	40.7	100.0	—	—	40.7	100.0
Printing machine operators	58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Textile machine operators	258	102	82	25	20	43	—	24	31.9	33.3	54.5	—	31.9	33.3	54.5	—	31.9	33.3
Textile sewing machine operators	67	42	42	25	366	—	192	—	36.4	66.7	100.0	—	36.4	66.7	100.0	—	36.4	66.7
Laundry and dry cleaning machine operators	1 119	1 089	708	151	149	35	91	15	45.2	56.1	53.3	—	45.2	56.1	53.3	—	45.2	56.1
Packaging and filling machine operators	1 080	1 081	708	151	149	35	91	15	33.2	33.0	51.4	—	33.2	33.0	51.4	—	33.2	33.0
Furnace, kiln, and oven operators, except food	1 757	1 206	864	447	249	74	124	35	34.3	64.7	86.9	—	34.3	64.7	86.9	—	34.3	64.7
Other specified machine operators	875	702	508	135	110	17	123	15	34.1	65.0	83.8	—	34.1	65.0	83.8	—	34.1	65.0
Miscellaneous and not specified machine operators	291	173	212	77	72	75	66	15	31.5	70.4	90.1	—	31.5	70.4	90.1	—	31.5	70.4
Fabricators, assemblers, and hand working occupations	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Welders and cutters	348	256	191	67	60	4	37	15	35.3	60.9	76.1	—	35.3	60.9	76.1	—	35.3	60.9
Solders and brazers	217	155	105	49	55	12	40	—	40.2	61.3	100.0	—	40.2	61.3	100.0	—	40.2	61.3
Assemblers	721	519	407	118	95	75	26	—	36.2	69.6	85.6	—	36.2	69.6	85.6	—	36.2	69.6
Hand working occupations	98	57	34	23	23	—	9	—	39.2	59.6	68.3	—	39.2	59.6	68.3	—	39.2	59.6
Production inspectors, testers, samplers, and weighers	623	462	373	77	72	75	17	—	35.6	70.8	90.1	—	35.6	70.8	90.1	—	35.6	70.8
Graders and sorters, except agricultural	6 487	5 928	4 518	337	1 074	141	422	28	39.6	54.8	69.7	—	39.6	54.8	69.7	—	39.6	54.8
Other production inspectors, testers, samplers, and weighers	4 515	4 057	2 975	295	846	132	321	28	40.9	56.2	69.4	—	40.9	56.2	69.4	—	40.9	56.2
Transportation and material moving occupations	4 392	3 943	2 861	295	846	132	321	28	41.1	55.5	68.8	—	41.1	55.5	68.8	—	41.1	55.5
Transportation occupations	2 503	2 255	1 744	192	413	30	205	28	37.0	56.6	63.3	—	37.0	56.6	63.3	—	37.0	56.6
Motor vehicle operators	89	71	54	6	6	12	11	—	44.2	47.5	100.0	—	44.2	47.5	100.0	—	44.2	47.5
Truck drivers	1 800	1 617	1 063	97	427	81	105	—	50.2	53.7	73.2	—	50.2	53.7	73.2	—	50.2	53.7
Other motor vehicle operators	1 23	114	114	42	228	9	101	—	33.2	30.0	100.0	—	33.2	30.0	100.0	—	33.2	30.0
Rail and water transport occupations	34	34	34	—	—	—	—	—	26.8	61.8	72.5	—	26.8	61.8	72.5	—	26.8	61.8
Metal moving equipment operators	1 922	1 871	1 543	42	228	9	101	—	37.0	51.6	100.0	—	37.0	51.6	100.0	—	37.0	51.6
Supervisors, except equipment operators	133	133	85	—	—	—	—	—	42.5	56.4	—	—	42.5	56.4	—	—	42.5	56.4
Crane, hoist, and derrick operators	844	829	729	15	57	—	34	—	37.5	46.7	80.0	—	37.5	46.7	80.0	—	37.5	46.7
Excavating, grading, and dozer machine operators	911	875	695	27	123	9	67	—	36.6	55.1	69.4	—	36.6	55.1	69.4	—	36.6	55.1
Other material moving equipment operators	17 219	15 788	11 712	1 029	3 003	350	2 261	55	34.2	44.9	57.4	—	34.2	44.9	57.4	—	34.2	44.9
Handlers, equipment cleaners, helpers, and laborers	119	112	73	7	39	—	—	—	46.7	50.0	100.0	—	46.7	50.0	100.0	—	46.7	50.0
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	690	627	484	27	96	36	110	—	28.6	31.8	49.2	—	28.6	31.8	49.2	—	28.6	31.8
Helpers, craft and production	1 714	1 661	1 330	46	230	7	216	—	31.9	46.3	56.6	—	31.9	46.3	56.6	—	31.9	46.3
Construction laborers	1 107	954	690	121	208	32	95	—	25	30.1	61.4	—	25	30.1	61.4	—	25	30.1
Freight stock and material handlers	362	348	235	8	91	—	60	6	43.1	29.2	42.9	—	43.1	29.2	42.9	—	43.1	29.2
Garage and service station occupations, and equipment cleaners	157	99	71	18	15	40	31	—	35.9	32.0	44.4	—	35.9	32.0	44.4	—	35.9	32.0
Hand packers and packagers	13 070	11 987	8 829	802	2 374	235	1 749	49	35.5	42.5	56.5	—	35.5	42.5	56.5	—	35.5	42.5
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States																			
	Total				Race				Business services											
	Both sexes		Male		Female		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over																				
2 724 596 1 507 640 1 216 956 1 046 049 129 046 121 737 80 618 60 718 35.6 33.5 82.6 84.5 31.4 18.0 12.6 9.1																				
Managerial and professional specialty occupations																				
849 864 551 118 298 746 274 044 18 503 16 224 16 095 8 568 39.2 34.6 95.7 94.9 56.7 38.9 17.7 17.8																				
Executive, administrative, and managerial occupations																				
512 699 330 862 181 837 167 342 11 558 9 784 9 711 5 546 40.9 35.7 94.8 94.4 54.0 31.6 17.8 12.2																				
Officials and administrators, public administration																				
70 8 466 3 867 3 640 163 134 185 81 37.9 33.9 98.7 96.6 71.1 30.1 3.7 2.6																				
Financial managers																				
11 933 8 066 3 867 3 640 163 134 185 81 37.9 33.9 98.7 96.6 71.1 30.1 3.7 2.6																				
Managers, marketing, advertising, and public relations																				
33 511 25 879 7 632 7 271 496 257 412 165 39.9 32.6 96.5 96.4 55.1 42.2 7.7 7.0																				
Administrators, education and related fields																				
900 477 423 376 4 36 10 39.9 32.6 96.5 96.4 55.1 42.2 7.7 7.0																				
Managers, medicine and health																				
15 021 9 124 5 897 5 446 471 337 390 146 39.5 35.6 93.9 95.2 50.5 34.6 8.3 8.0																				
Other specified managers																				
244 459 172 416 72 043 67 401 5 697 2 938 5 175 2 057 40.3 36.2 93.5 93.7 48.0 28.7 12.7 10.1																				
Managers and administrators, n.e.c.																				
213 966 150 199 63 767 59 510 4 995 2 760 4 397 1 836 40.4 35.2 94.5 94.0 50.2 29.3 88.0 88.0																				
Self-employed																				
30 493 22 217 8 276 7 891 772 178 778 221 42.5 42.7 87.2 91.3 33.2 24.2 98.5 88.0																				
Management related occupations																				
206 805 114 842 91 963 83 176 4 727 6 082 3 549 3 087 42.0 36.0 96.2 94.6 61.9 32.6 29.6 14.9																				
Accountants and auditors																				
28 526 14 762 13 864 12 126 2 118 3 153 1 638 345 34.6 32.7 99.0 96.6 44.7 32.0 7.8 4.2																				
Personnel, training, and labor relations specialists																				
62 517 27 826 34 691 30 272 2 118 3 153 1 837 1 891 37.4 31.7 95.3 95.4 35.2 34.9 7.8 4.2																				
Buyers and purchasing agents																				
7 024 3 674 3 350 3 106 64 133 183 171 51 41.3 31.7 92.2 95.9 35.5 31.9 10.6 2.9																				
Inspectors and compliance officers																				
4 430 3 628 828 626 131 131 171 51 41.3 31.7 92.2 95.9 35.5 31.9 10.6 2.9																				
Other management related occupations																				
104 208 64 952 39 256 37 046 1 884 1 514 1 220 799 45.8 39.5 96.6 93.4 67.8 31.3 43.9 29.4																				
Professional specialty occupations																				
337 165 220 256 116 909 106 702 6 945 6 440 6 384 3 022 36.5 33.5 97.0 95.7 60.7 50.3 17.6 26.5																				
Engineers, architects, and surveyors																				
50 643 48 171 2 472 2 130 1 170 1 140 1 099 76 38.3 38.7 97.2 97.2 69.9 45.8 2.1 2.1																				
Architects																				
802 673 129 129 1 135 1 26 962 70 38.3 38.7 97.2 97.2 69.9 45.8 2.1 2.1																				
Engineers																				
49 381 47 301 2 280 1 932 1 135 1 26 962 70 38.3 38.7 97.2 97.2 69.9 45.8 2.1 2.1																				
Civil engineers																				
1 656 1 577 79 79 29 29 35 77 37.1 37.1 99.1 93.1 71.0 48.0 2.3 3.3																				
Electrical and electronic engineers																				
11 932 11 510 422 350 10 790 10 790 260 8 37.1 37.1 99.1 93.1 71.0 48.0 2.3 3.3																				
Industrial engineers																				
3 203 2 773 430 378 69 20 125 57 6 41.0 38.6 98.4 98.6 70.2 48.0 1.2 1.6																				
Mechanical engineers																				
4 714 3 949 1 253 1 113 695 53 528 56 36.1 30.8 87.8 98.4 61.9 42.9 9.1 7.9																				
Other engineers																				
28 716 27 492 1 224 1 032 685 53 528 56 36.1 30.8 87.8 98.4 61.9 42.9 9.1 7.9																				
Surveyors and mapping scientists																				
260 197 63 63 10 10 9 9 31.2 31.2 98.8 99.1 61.5 63.1 5.5 5.1																				
Computer systems analysts and scientists																				
46 384 37 172 9 212 8 408 1 361 396 812 173 33.9 31.2 98.8 99.1 61.5 63.1 5.5 5.1																				
Operations and systems researchers and analysts																				
6 423 4 927 1 496 1 342 1 179 95 96 35 37.0 37.0 98.7 97.6 67.2 61.4 4.1 3.1																				
Mathematical scientists																				
4 047 2 602 1 445 1 340 65 70 34 14 34.9 31.1 99.8 98.6 90.2 62.4 5.8 2.7																				
Natural scientists																				
21 767 17 484 4 283 3 688 294 190 323 184 37.1 31.1 99.3 98.2 88.0 77.7 3.1 2.1																				
Chemists, except biochemists																				
9 039 7 075 1 964 1 600 168 168 158 127 36.5 31.5 99.1 98.6 85.0 80.1 1.1 1.5																				
Other natural scientists																				
12 728 10 409 2 319 2 088 126 104 165 57 37.4 30.8 99.5 97.8 90.0 75.7 4.5 2.7																				
Health diagnosing occupations																				
1 021 787 234 217 10 5 3 039 47 40.9 35.8 100.0 100.0 88.4 72.2 14.5 14.5																				
Health assessment and treating occupations																				
22 513 1 346 21 167 17 641 133 3 039 47 490 38.1 40.1 93.8 92.5 47.6 32.5 27.4 29.6																				
Registered nurses																				
20 702 786 19 916 16 490 109 2 967 36 481 36.3 40.8 93.3 92.3 41.7 29.6 29.1 30.2																				
Other health assessment and treating occupations																				
1 811 560 1 251 1 151 24 72 11 9 40.3 32.9 94.5 95.2 55.9 79.1 25.0 20.5																				
Teachers, except postsecondary																				
4 104 2 078 2 026 1 739 155 210 154 50 35.0 33.7 93.6 93.5 48.4 51.6 9.1 21.7																				
Social scientists and urban planners																				
15 863 10 421 5 242 4 879 273 214 209 97 37.4 31.9 98.6 97.5 80.1 62.5 16.7 8.9																				
Social and recreation workers																				
2 830 1 147 1 683 1 309 239 282 85 122 34.4 34.2 91.9 92.0 52.4 53.3 10.5 10.3																				
Lawyers and judges																				
2 642 2 188 454 398 89 41 57 19 37.7 31.0 99.7 100.0 96.7 79.5 14.2 6.8																				
Writers, artists, entertainers, and athletes																				
154 129 89 979 64 150 60 890 2 804 1 508 3 408 1 681 36.9 33.1 94.4 95.9 46.0 49.7 35.4 35.4																				
Other professional specialty occupations																				
4 799 1 754 3 045 2 721 173 250 130 66 34.8 34.3 94.5 97.0 62.9 57.5 7.8 3.3																				
Technical, sales, and administrative support occupations																				
1 069 203 377 044 692 159 610 279 25 132 55 673 16 968 30 624 33.0 32.2 90.8 88.8 32.2 13.5 8.4 5.2																				
Technicians and related support occupations																				
182 668 127 135 55 533 46 883 5 944 5 511 5 178 2 287 31.9 31.1 95.7 91.2 36.6 35.0 6.2 10.4																				
Health technicians and technicians																				
12 796 10 973 5 073 4 476 1 883 2 315 1 116 567 33.5 42.2 90.5 79.0 34.1 9.5 13.4 32.8																				
Licensed practical nurses																				
10 099 538 9 561 7 042 91 395 39 536 40.2 44.3 81.8 76.2 14.7 4.6 36.6 37.5																				
Other health technicians and technicians																				
2 697 1 285 1 412 1 183 92 106 77 31 32.3 31.5 94.1 98.2 42.3 42.8 3.7 1.5																				
Engineering and science technicians																				
72 064 55 708 16 356 14 242 2 613 1 193 2 915 785 32.3 29.5 93.9 91.2 19.0 26.2 5.7 3.5																				
Electrical and electronic technicians																				
17 682 16 041 6 411 5 342 897 203 786 68 32.5 28.7 92.0 91.2 12.2 21.1 2.8 1.2																				
Industrial and mechanical engineering technicians																				
878 807 411 340 34 174 40 30.6 40.0 87.5 100.0 17.0 16.9 3.2 5.6																				
Drafting and surveying technicians																				
21 270 16 328 4 942 4 505 664 454 989 205 31.6 27.7 93.4 92.3 14.5 24.1 12.9 9.7																				
Other engineering and science technicians																				
32 234 22 532 9 702 8 324 1 018 816 1 100 512 32.3 29.6 92.9 90.5 27.2 28.1 2.7 0.7																				
Technicians, except health, engineering, and science																				
97 808 69 604 28 204 24 416 3 148 2 003 2 147 935 31.7 29.7 97.3 95.9 50.8 50.1 6.4 5.6																				
Airplane pilots and navigators																				
641 623 18 18 99 81 82 57 31.9 27.9 81.4 78.4 18.2 9.3 6.6 3.2																				
Air traffic controllers and broadcast equipment operators																				
2 711 1 607 1 104 983 99 2 011 1 260 524 30.8 29.2 98.4 97.8 52.2 51.6 6.6 5.6																				
Computer programmers																				
63 423 45 640 17 783 15 229 2 011 1 260 1 125 524 33.9 30.9 96.3 94.4 50.8 51.9 6.0 5.6																				
Other technicians, except health, engineering, and science																				
31 033 21 734 9 299 8 186 1 038 662 931 354 33.9 30.9 96.3 94.4 50.8 51.9 6.0 5.6																				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 (Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Business services											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
169 030	107 107	61 923	102 251	57 400	3 097	2 798	2 559	2 183	37.7	32.4	91.1	85.1
14 438	11 587	3 051	9 833	2 805	286	147	301	104	36.9	35.3	91.0	89.7
12 960	10 253	2 707	8 533	2 477	235	139	249	96	36.1	35.0	91.8	90.5
1 678	1 334	41 079	1 226	328	51	8	52	8	36.1	35.0	91.8	90.5
126 583	85 504	41 079	81 778	38 861	2 457	1 438	1 920	1 215	37.9	31.7	92.7	88.6
1 515	1 412	15 487	1 382	96	10	7	264	809	44.1	30.1	97.8	100.0
20 519	5 032	15 487	4 547	13 775	278	1 098	62	374	28.3	32.9	73.6	76.0
5 100	4 400	4 547	3 707	3 707	220	653	202	435	27.4	25.5	76.3	75.9
15 419	4 332	11 087	3 957	10 008	66	108	74	49	28.5	26.3	73.2	76.1
5 775	3 572	2 203	3 465	2 063					45.2	40.5	74.9	76.8
717 305	142 802	574 703	118 988	505 796	16 091	47 364	9 231	26 154	31.3	32.3	86.1	89.0
43 243	19 354	23 889	17 366	21 248	1 357	1 915	1 397	868	36.1	35.8	93.4	91.5
43 697	23 662	20 035	19 357	16 676	2 937	4 483	3 14	872	28.4	28.1	96.1	95.5
220 970	5 001	215 051	5 277	195 108	409	13 438	8 791	6 798	35.1	32.4	94.2	93.6
164 763	2 938	162 726	1 635	148 905	269	9 075	145	2 053	32.5	32.4	90.4	90.4
21 770	5 333	52 325	3 642	46 203	140	4 363	28	984	29.2	28.6	89.7	84.7
26 067	4 128	21 939	3 618	18 545	58	1 905	222	693	28.2	32.0	88.3	81.3
13 191	2 332	10 352	1 617	8 160	444	1 644	165	793	25.6	25.1	81.9	76.4
55 275	5 329	49 746	4 619	45 935	478	2 247	324	1 636	32.2	32.6	84.0	87.3
4 665	1 398	5 069	4 128	4 935	82	328	45	233	33.8	36.7	92.3	92.0
20 933	1 804	18 129	1 926	16 066	123	417	57	306	33.6	33.0	92.3	92.0
20 079	16 205	4 874	16 952	3 920	187	1 626	66	781	37.0	32.2	91.6	90.0
11 072	6 391	4 681	11 810	3 781	363	1 201	1 525	437	25	33.7	81.0	74.6
7 337	5 041	2 296	4 117	5 500	584	2 081	262	393	29.9	32.0	63.2	49.9
11 740	6 772	4 968	3 980	4 979	765	201	432	148	33.5	30.7	71.7	66.6
6 700	3 651	3 049	3 556	4 409	770	373	506	238	28.5	29.9	76.9	77.7
35 281	15 153	20 128	13 678	17 869	265	311	218	188	27.6	29.0	79.2	79.8
50 399	3 133	47 266	2 202	36 580	951	1 523	676	1 064	33.8	31.4	92.1	88.6
101 343	20 143	81 200	16 745	70 480	2 190	7 644	1 472	3 818	30.8	33.1	87.0	89.5
497 507	340 102	157 405	256 590	104 993	63 759	41 822	29 842	16 027	34.8	38.0	59.7	52.2
173 377	150 828	22 549	118 362	16 666	26 390	4 930	8 311	1 156	40.5	31.8	65.8	70.1
165 887	144 073	21 814	112 633	16 068	25 355	4 828	8 943	1 300	40.3	31.7	65.1	69.8
7 490	6 755	735	5 729	578	935	251	238	121	42.1	34.0	65.1	74.4
324 130	189 274	134 856	138 228	88 247	37 500	36 892	21 531	14 877	42.1	39.1	80.5	78.4
5 827	2 308	3 519	1 446	2 073	370	555	14 877	209	32.5	30.7	54.8	49.2
19 986	2 308	3 519	1 446	2 073	412	6 583	1 406	337	29.5	30.7	52.2	56.6
285 789	182 786	103 003	133 630	67 512	35 859	27 704	20 996	12 530	32.4	41.3	79.2	61.1
12 628	2 672	9 956	1 983	7 972	1 846	1 846	193	628	32.6	39.4	54.5	44.9
3 792	3 119	673	2 412	580	493	28	309	68	32.3	28.8	51.4	72.5
119 584	108 109	11 475	98 160	9 709	6 085	1 197	5 779	743	33.9	33.6	79.4	78.4
57 849	55 433	2 416	50 640	2 106	2 873	234	2 673	182	33.0	30.4	82.5	84.8
2 365	2 181	184	2 074	168	70	13	230	18	32.1	32.1	82.9	84.0
3 500	3 465	35	3 001	25	233	13	266	13	33.7	30.3	69.3	77.1
6 150	5 926	224	5 318	184	419	33	247	2	32.9	32.0	75.6	86.6
4 833	4 598	235	4 223	216	225	10	250	6	32.0	32.7	87.3	80.4
40 095	38 887	1 191	35 276	1 746	102	178	1 708	153	33.4	28.7	81.3	57.9
28 740	27 686	1 054	24 927	901	1 688	104	1 734	51	33.0	32.3	84.6	77.7
1 862	1 772	90	1 694	75	22	15	45	—	33.0	45.5	71.5	79.4
3 724	3 593	131	3 171	101	237	27	331	11	42.2	34.0	76.9	75.6
8 560	8 302	259	7 547	173	482	45	375	23	34.4	29.4	64.9	68.7
2 969	2 760	209	2 322	203	309	4	296	4	32.2	31.9	82.5	76.0
4 326	4 282	44	3 963	44	199	—	260	5	30.8	33.0	54.7	85.6
7 299	6 977	322	6 320	305	439	17	427	8	34.1	27.6	75.9	70.5
									31.9	33.1	64.3	84.8
											2.5	6.8
											2.8	2.8
											5.2	5.2
											9.8	9.8
											19.3	19.3
											8.3	10.5
											6.6	6.6
											6.9	6.9
											5.7	5.7
											—	—
											5.1	5.1
											8.9	8.9
											14.2	14.2
											13.7	13.7
											4.7	4.7
											27.8	27.8
											20.5	20.5
											6.8	6.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Business services											
	United States				Spanish origin ¹				Median age			
	Total		Race		Black		White		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Precision production, craft, and repair occupations—Con.												
Extrusive occupations	288	253	35	240	21	8	681	21	9	5	37.8	37.5
Precision production occupations	32 707	24 737	7 970	22 353	6 681	1 516	33 596	6 681	850	1 367	38.4	38.4
Supervisors, production occupations	18 279	13 304	4 975	12 116	4 297	516	270	4 297	516	736	35.1	35.1
Precision manufacturing occupations	5 537	5 186	351	4 737	330	270	330	330	270	290	38.2	38.2
Tool and die makers	563	551	12	531	12	20	531	12	20	215	42.1	42.1
Machinists	3 330	3 213	117	2 888	105	178	105	105	12	8	40.7	40.7
Sheet metal workers	645	645	—	570	70	49	570	70	49	215	36.6	36.6
Other precision metal workers	999	777	222	748	213	23	748	213	9	46	37.4	37.4
Precision textile, apparel, and furnishings machine workers	1 730	277	1 453	243	1 098	18	1 453	1 098	13	134	47.1	47.1
Precision food production occupations	263	177	86	143	54	17	143	54	19	41	34.9	34.9
Precision inspectors, testers, and related workers	1 354	319	1 035	1 166	277	102	277	277	29	92	35.1	35.1
Plant and system operators	3 442	3 291	151	2 927	126	243	126	126	147	75	38.4	38.4
Other precision production occupations	1 783	1 148	635	1 021	499	97	499	499	84	75	35.3	35.3
Operators, fabricators, and laborers	184 646	128 148	56 498	105 124	46 444	15 074	67 93	46 444	6 793	11 625	31.1	31.1
Machine operators, assemblers, and inspectors	99 432	59 277	40 155	30 367	33 596	5 081	4 251	33 596	4 251	5 079	32.2	32.2
Machine operators and tenders, except precision	66 983	35 861	31 122	29 610	28 179	3 617	3 053	28 179	3 053	3 664	30.2	30.2
Machine operators and plastic working machine operators	1 643	1 265	378	1 039	298	60	298	298	69	165	30.3	30.3
Metallurgy and plastic processing and woodworking machine operators	198	138	60	116	60	5	60	60	23	—	28.7	28.7
Metal and plastic processing and woodworking machine operators	1 097	793	304	694	203	82	203	203	75	38	30.3	30.3
Printing machine operators	8 517	4 676	3 841	3 977	3 372	427	3 372	3 372	301	318	32.2	32.2
Textile machine operators	820	301	519	126	103	10	103	103	19	123	31.7	31.7
Textile sewing machine operators	822	570	252	408	188	139	34	188	34	51	28.7	28.7
Laundry and dry cleaning machine operators	1 079	464	615	393	516	44	52	393	44	71	25.2	25.2
Packaging and filling machine operators	544	514	30	444	30	58	30	444	58	13	34.2	34.2
Furnace, kiln, and oven operators, except food	33 947	16 270	17 677	13 712	15 390	1 313	1 371	15 390	1 313	1 351	30.0	30.0
Other specified machine operators	17 995	10 790	7 205	8 457	5 462	1 424	1 266	8 457	1 266	1 298	30.0	30.0
Miscellaneous and not specified machine operators	24 670	18 462	6 208	16 291	5 065	1 165	707	5 065	1 402	504	37.8	37.8
Fabricators, assemblers, and hand working occupations	2 990	2 846	144	2 38	112	206	22	2 38	22	321	32.3	32.3
Welders and cutters	8 051	3 607	4 444	2 878	3 433	454	631	3 433	405	423	36.4	36.4
Solders and brazers	13 456	11 971	1 485	10 944	1 414	505	25	1 414	676	41	30.6	30.6
Assemblers	7 779	4 504	3 275	3 299	2 352	299	339	2 352	313	255	31.5	31.5
Hand working occupations	1 548	1 043	505	4 395	2 352	912	98	2 352	98	106	28.7	28.7
Production inspectors, testers, samplers, and weighers	6 231	4 449	1 782	4 071	1 440	244	229	1 440	215	149	33.9	33.9
Graders and sorters, except agricultural	38 917	34 941	3 976	28 513	3 516	4 862	312	3 516	2 982	180	31.9	31.9
Other production inspectors, testers, samplers, and weighers	32 093	28 484	3 609	23 041	3 236	4 178	241	3 236	2 435	163	31.6	31.6
Transportation and material moving occupations	31 755	28 216	3 539	22 798	3 179	4 159	228	3 179	2 435	163	31.5	31.5
Motor vehicle operators	25 187	22 782	2 405	18 353	2 183	3 379	138	2 183	2 023	86	31.9	31.9
Truck drivers	5 221	4 312	909	3 395	781	739	90	781	347	60	34.9	34.9
Driver-sales workers	338	268	70	243	57	19	13	57	17	17	32.1	32.1
Other motor vehicle operators	6 824	6 457	367	5 478	280	684	71	5 478	547	8	31.8	31.8
Rail and water transportation occupations	2 290	2 270	20	2 119	20	111	8	2 119	54	8	45.0	45.0
Material moving equipment operators	2 539	2 523	16	434	16	43	79	434	79	16	36.5	36.5
Supervisors, material moving equipment operators	3 815	3 492	323	2 763	236	514	71	2 763	406	17	32.2	32.2
Crane, hoist and winch operators	46 297	33 930	12 367	26 244	9 332	5 131	2 230	9 332	3 564	1 255	27.9	27.9
Excavating, grading, and dozer machine operators	38 917	34 941	3 976	28 513	3 516	4 862	312	3 516	2 982	180	31.9	31.9
Other material moving equipment operators	32 093	28 484	3 609	23 041	3 236	4 178	241	3 236	2 435	163	31.6	31.6
Handlers, equipment cleaners, helpers, and laborers	458	308	150	285	116	23	230	116	5	9	35.3	35.3
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	1 548	1 276	292	1 089	53	176	67	1 089	208	5	25.2	25.2
Helpers, craft and production	1 486	1 412	74	1 339	53	259	21	1 339	82	28	37.4	37.4
Construction laborers	5 051	4 355	696	3 339	544	754	103	544	374	50	23.1	23.1
Freight, stock, and material handlers	2 021	1 658	363	1 361	257	193	106	257	188	11	25.1	25.1
Garage and service station attendants, and equipment cleaners	8 499	2 768	5 731	1 996	4 476	396	846	4 476	559	64	26.3	26.3
Hand packers and packagers	27 214	22 153	5 061	17 211	3 665	3 330	1 053	3 665	2 148	536	29.3	29.3
Laborers, except construction												

¹Persons of Spanish origin may be of any race.

For meaning of symbols, see Introduction.

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Automotive repair and services											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Black						
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations	42 085	27 100	14 985	24 186	13 008	1 959	1 596	686	33.9	26.4	79.0	80.1
Supervisors and proprietors, sales occupations	10 039	9 605	434	9 008	387	413	511	37	37.4	32.7	80.1	83.9
Sales representatives, finance and business services	7 855	7 615	240	7 028	305	347	379	6	35.6	31.4	80.0	86.2
Sales representatives, commodities, except retail	2 184	2 090	94	1 980	82	66	132	6	42.3	47.9	71.0	75.5
Sales representatives, retail and personal services	6 932	5 398	1 534	5 090	1 411	228	207	43	34.4	27.3	84.3	84.4
Cashiers	25 068	12 057	13 011	10 075	11 210	1 318	878	610	35.8	26.0	100.0	79.5
Other sales occupations, retail and personal services	8 022	3 278	4 744	2 252	3 802	689	365	246	31.0	29.1	66.1	63.1
Sales related occupations	17 046	8 779	8 267	7 823	7 408	629	513	364	30.9	25.0	81.6	88.8
Administrative support occupations, including clerical	69 011	11 152	57 859	9 866	54 403	768	732	2 517	32.3	34.7	76.7	83.1
Supervisors, administrative support occupations	2 234	974	1 260	841	423	80	81	62	37.6	34.4	80.6	84.8
Computer equipment operators	834	251	583	218	365	16	20	29	29.1	26.8	92.4	89.0
Secretaries, stenographers, and typists	17 964	203	17 761	16 813	1 948	20	26	753	28.0	32.5	75.4	84.2
Stenographers and typists	941	101	840	75	765	20	11	688	30.8	30.6	92.2	84.2
Receptionists	1 600	43	1 557	43	1 382	103	122	17	27.8	27.9	58.4	84.8
Other information clerks	1 040	223	817	185	632	25	13	62	32.9	28.1	74.9	80.0
File clerks	617	53	564	28	506	15	11	80	31.9	26.4	62.3	75.5
Other records processing occupations, except financial	1 706	904	802	719	506	136	55	733	32.9	29.1	77.3	92.8
Bookkeepers, accounting, and auditing clerks	24 301	1 709	22 592	1 625	21 642	30	80	602	56.3	40.0	81.3	83.6
Payroll and timekeeping clerks	277	35	242	35	207	6	4	44	45.0	36.4	45.7	82.6
Other financial records processing occupations	881	189	692	176	516	11	4	28	35.7	30.8	81.3	91.0
Telephone operators	422	169	253	144	109	6	4	28	56.0	27.3	72.2	72.2
Mail and message distributing occupations	1 138	466	672	388	284	60	40	25	25.7	32.8	58.4	70.5
Production coordinators and expeditors	518	392	126	521	449	66	62	4	33.9	32.4	67.7	87.0
Traffic, shipping, and receiving clerks	2 350	1 919	431	1 774	401	55	16	11	27.1	34.3	76.1	84.8
Stock and inventory clerks	1 473	838	635	705	592	82	104	12	29.3	30.1	76.1	85.8
Other material recording, scheduling, and distributing clerks	1 423	834	589	776	642	29	26	34	32.9	28.7	69.3	74.2
Adjusters and investigators	797	53	744	41	699	87	12	69	30.4	30.4	78.5	91.9
Data-entry keyers	9 048	1 430	7 618	1 281	6 921	302	125	514	25	26.7	92.5	85.2
Other administrative support occupations	8 151	7 243	908	5 837	732	942	678	34	29.2	32.9	39.3	44.6
Service occupations												
Private household occupations	793	726	67	539	41	147	55	41	46.9	29.8	52.5	40.3
Protective service occupations	723	661	62	474	36	147	38	17	48.6	28.9	53.4	35.5
Guards	70	65	5	65	5	795	17	34	38.4	40.0	43.1	100.0
Other protective service occupations	7 358	6 517	841	5 298	691	128	623	8	27.6	33.7	37.9	44.9
Food preparation and service occupations	242	152	90	12	86	12	33	8	25	33.2	63.2	53.3
Health service occupations	19	12	7	12	7	710	555	24	26.8	35.5	58.3	100.0
Cleaning and building service occupations, except household	6 648	6 006	642	4 913	496	124	92	2	31.1	30.8	36.1	38.8
Personal service occupations	449	347	102	233	102	73	35	2	40.1	25	56.8	72.5
Farming, forestry, and fishing occupations	255	236	19	219	8	11	25	—	25	26.4	54.2	42.1
Precision production, craft, and repair occupations	553 579	546 700	6 879	483 543	5 794	36 458	42 676	485	33.0	33.2	60.2	66.0
Mechanics and repairers	536 092	530 322	5 770	469 562	4 809	35 280	40 705	451	33.0	32.8	60.1	65.2
Supervisors, mechanics and repairers	15 740	15 458	282	14 384	244	637	850	12	39.3	35.8	68.4	75.5
Automobile mechanics, including body	481 989	477 000	4 989	421 117	4 139	32 177	37 627	427	32.9	32.8	59.7	65.6
Industrial machinery repairers	1 682	1 631	51	1 489	51	68	92	—	31.1	30.8	60.8	47.1
Electronic repairers, communications and industrial equipment	858	823	35	768	23	21	65	6	34.7	31.6	66.2	62.9
Heating, air conditioning, and refrigeration mechanics	391	391	—	349	42	37	18	—	32.8	31	74.4	—
Other mechanics and repairers	35 432	35 019	413	31 455	352	2 340	2 053	6	32.2	32.1	61.4	56.7
Construction trades	4 397	4 294	103	3 934	98	365	700	—	30.8	38.3	58.6	47.6
Supervisors, construction occupations	110	110	—	95	15	4	4	—	40.0	—	53.6	—
Carpenters	544	527	17	501	17	7	27	—	33.6	58.8	59.0	58.8
Electricians	421	407	14	323	14	57	29	—	33.4	40.0	75.7	9.3
Painters, construction and maintenance	2 260	2 219	41	1 111	36	217	499	—	28.8	31.2	53.7	31.2
Runners, pipelayers, and steamfitters	142	135	7	111	24	16	24	—	34.5	25	65.2	5.2
Other construction trades	970	896	74	774	24	53	117	—	31.6	45.0	61.0	70.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Sex, Race, and Education. For definitions of terms, see appendix A)

estimates based on a sample. see **introduction**.
 For meaning of symbols, see **introduction**.
 For definitions of terms, see **appendix A**

United States

Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extrusive occupations	27	12 057	1 006	887	813	75	1 271	—	38.5	34.5	72.2	22.2
Precision production occupations	13 063	40 328	3 322	2 793	3 714	22	319	34	34.5	72.2	4.3	13.5
Supervisors, production occupations	4 850	2 144	81	1 963	1 32	7	103	—	37.6	46.1	65.5	8.4
Precision metalworking occupations	2 245	59	67	1 772	117	7	85	—	36.9	45.7	71.5	—
Tool and die makers	2 097	1 940	67	1 772	117	7	85	—	36.9	45.7	71.5	—
Mechanists	91	71	14	61	8	—	9	—	25—	65+	100.0	16.2
Sheet metal workers	88	88	—	—	—	—	9	—	25—	65+	100.0	1.3
Other precision metal workers	88	88	—	—	—	—	9	—	34.2	70.7	27.6	23.9
Precision textile, apparel, and furnishings machine workers	4 068	3 716	352	3 111	164	23	726	12	32.8	38.4	48.7	—
Precision food production occupations	4 118	5	5	5	113	33	75	—	52.3	15.9	7.3	3.1
Precision inspectors, testers, and related workers	1 439	1 446	193	1 278	95	23	75	11	34.5	88.6	8.3	—
Plant and system operation	1 333	1 333	—	32	32	—	—	—	27.3	32.3	—	—
Other precision production occupations	210	157	53	53	5	—	15	—	35.7	49.2	8.9	50.3
Operators, fabricators, and laborers												
Machine operators, assemblers, and inspectors	150 261	138 994	11 267	8 782	20 525	1 795	18 009	908	26.9	54.1	2.0	10.6
Machine operators and tenders, except precision	40 988	38 888	1 401	1 272	3 953	183	6 380	54.2	46.2	1.5	1.8	7.7
Machine operators and plastic working machine operators	31 043	29 955	1 088	880	3 047	101	5 210	147	31.6	54.3	1.5	10.6
Fabricating machine operators, i.e.,	64	926	49	49	73	—	6	—	32.7	50.1	—	14.3
Metal and plastic processing and woodworking machine operators	251	234	17	17	21	—	49	—	30.9	85.5	—	—
Printing machine operators	34	45	—	22	6	—	—	—	32.5	54.3	—	—
Textile machine operators	99	38	61	42	—	—	—	19	57.5	16.7	—	—
Textile sewing machine operators	59	59	—	—	31	—	—	—	44.1	84.2	—	41.0
Laundry and dry cleaning machine operators	20	12	—	—	—	—	—	—	25—	40.7	—	—
Packaging and filling machine operators	131	109	22	16	34	6	21	—	30.0	27.3	—	12.6
Furnace, kiln, and oven operators, except food	25 993	25 336	657	525	2 292	53	4 621	106	28.5	54.7	1.4	—
Other specified machine operators	3 372	3 121	251	200	580	42	380	22	29.1	50.3	1.7	6.7
Miscellaneous and not specified machine operators	8 962	8 540	422	312	864	71	1 147	44	35.6	58.3	—	—
Fabricators, assemblers, and hand working occupations	4 954	4 895	59	48	374	2	642	9	31.2	53.3	1.3	13.1
Truck drivers and carriers	52	47	5	5	—	—	—	—	27.8	56.2	—	10.2
Solders and brazers	3 455	3 287	168	111	444	38	455	19	33.3	78.0	1.5	12.4
Plant working occupations	484	311	190	148	46	—	—	—	32.7	49.1	1.2	13.8
Production inspectors, testers, samplers, and weighers	21	12	9	9	—	—	—	—	31.9	22.0	—	40.0
Other production inspectors, testers, samplers, and weighers	463	381	82	71	42	11	23	10	30.5	35.8	3.6	—
Transportation and material moving occupations	48 691	44 267	4 424	3 574	8 183	595	4 691	225	31.6	48.8	3.7	2.6
Transportation occupations	47 905	43 533	4 352	3 539	8 106	578	4 613	205	31.6	48.8	3.7	2.6
Motor vehicle operators	23 187	21 159	1 391	1 189	2 294	141	1 524	83	28.9	68.0	—	—
Truck drivers	186	16	27	13	13	—	—	—	25—	77.8	17.6	—
Driver-sales workers	24 431	21 497	2 934	2 323	5 849	437	3 073	122	31.7	29.5	4.9	2.1
Other motor vehicle operators	21 999	19 999	2 000	1 600	4 249	10	78	—	32.7	74.7	9.5	23.2
Rail and water transportation occupations	786	714	72	35	77	17	78	20	31.3	75.0	1.0	—
Material moving occupations	30	30	—	—	—	—	—	—	56.4	56.7	—	—
Supervisors, material moving equipment operators	28	28	—	—	6	—	—	—	57.1	57.1	—	—
Crane, hoist and winch operators	103	85	18	76	—	—	33	12	48.6	42.5	—	—
Excavating, grading, and dozer machine operators	625	571	54	29	71	17	45	8	35.6	75.3	1.2	—
Other material moving equipment operators	61 081	55 839	5 242	3 936	8 389	1 017	6 938	473	29.8	42.5	7.7	—
Handlers, equipment handlers, helpers, and laborers	59	52	7	7	—	—	—	—	25—	44.8	1.5	8.2
Supervisors; handlers, equipment cleaners, and laborers, n.e.c.	9 987	9 223	664	557	1 006	79	1 286	60	33.6	100.0	13.5	23.1
Helpers, craft and production	146	146	—	—	31	—	26	—	31.0	51.4	0.8	—
Construction laborers	757	712	45	45	169	98	98	—	25—	47.9	2.3	—
Freight, stock, and material handlers	45 066	41 099	3 967	3 124	6 622	785	4 978	385	28.5	60.0	10.4	—
Garage and service station occupations, and equipment cleaners	170	93	77	73	16	45	25	4	25—	38.5	1.7	7.9
Hand packers and packagers	4 896	4 414	482	357	545	108	545	6	40.5	16.9	8.6	—
Hand workers, except construction	—	—	—	—	—	—	—	—	25—	41.0	0.4	4.8

Individuals of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States																													
Other repair services																													
Total				Race				Spanish origin ¹				Median age				Percent high school graduates				Percent completed 4 or more years of college				Percent self-employed					
Both sexes		Male		Female		White		Black		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
Employed persons 16 years and over		455 581	395 258	60 323	362 746	56 190	17 551	2 269	25 184	2 540	37.1	38.3	5.7	6.2	34.6	21.5	34.6	21.5	34.6	21.5	34.6	21.5	34.6	21.5	34.6	21.5	34.6	21.5	
Managerial and professional specialty occupations		29 365	24 305	5 060	23 235	4 787	451	135	807	139	41.7	40.3	17.1	14.8	31.7	24.5	31.7	24.5	31.7	24.5	31.7	24.5	31.7	24.5	31.7	24.5	31.7	24.5	
Executive, administrative, and managerial occupations		26 562	22 109	4 453	21 194	4 226	390	116	750	117	42.1	40.4	15.8	12.2	33.3	22.0	33.3	22.0	33.3	22.0	33.3	22.0	33.3	22.0	33.3	22.0	33.3	22.0	
Financial managers		330	225	105	218	105	7	—	—	—	34.8	48.6	58.2	12.4	11.8	1.9	11.8	13.2	11.8	13.2	11.8	13.2	11.8	13.2	11.8	13.2	11.8	13.2	
Managers, marketing, advertising, and public relations		1 235	1 121	114	1 099	114	2	—	48	7	38.9	40.0	85.7	3.5	57.1	—	57.1	—	57.1	—	57.1	—	57.1	—	57.1	—	57.1	—	
Administrators, education and related fields		16	14	2	14	—	—	—	—	—	46.7	40.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Managers, medicine and health		577	480	97	458	81	19	16	—	—	42.9	40.2	22.7	21.6	24.4	15.5	24.4	15.5	24.4	15.5	24.4	15.5	24.4	15.5	24.4	15.5	24.4	15.5	
Other specified managers		22 457	18 905	3 552	18 147	3 392	329	75	435	110	42.6	40.9	13.6	11.4	37.2	25.4	37.2	25.4	37.2	25.4	37.2	25.4	37.2	25.4	37.2	25.4	37.2	25.4	
Managers and administrators, n.e.c.		14 062	11 778	2 284	11 317	2 170	209	55	434	86	41.4	38.1	15.4	12.7	9.1	71.2	9.1	71.2	9.1	71.2	9.1	71.2	9.1	71.2	9.1	71.2	9.1	71.2	
Salaried		8 395	7 127	1 268	6 830	1 222	120	20	201	24	44.7	45.0	10.6	9.1	98.6	71.2	98.6	71.2	98.6	71.2	98.6	71.2	98.6	71.2	98.6	71.2	98.6	71.2	
Self-employed		1 947	1 364	583	1 258	532	35	25	67	—	37.7	35.9	23.5	17.0	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	
Management related occupations		1 947	1 364	583	1 258	532	35	25	67	—	37.7	35.9	23.5	17.0	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	5.6	7.4	
Accountants and auditors		649	367	282	324	262	5	9	21	—	38.2	38.7	96.5	47.7	30.4	43.3	30.4	43.3	30.4	43.3	30.4	43.3	30.4	43.3	30.4	43.3	30.4	43.3	
Personnel, training, and labor relations specialists		519	394	125	354	119	11	6	37	—	40.8	41.6	77.7	76.0	9.9	11.7	9.9	11.7	9.9	11.7	9.9	11.7	9.9	11.7	9.9	11.7	9.9	11.7	
Buyers and purchasing agents		576	455	121	436	96	19	10	5	—	33.9	31.4	13.4	4.1	3.7	4.1	3.7	4.1	3.7	4.1	3.7	4.1	3.7	4.1	3.7	4.1	3.7	4.1	
Inspectors and compliance officers		59	55	—	55	—	—	—	4	—	36.3	34.5	10.2	32.7	10.9	5.5	10.9	5.5	10.9	5.5	10.9	5.5	10.9	5.5	10.9	5.5	10.9	5.5	
Other management related occupations		144	89	55	89	55	—	—	—	—	37.5	34.5	43.8	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	
Professional specialty occupations		2 803	2 196	607	2 041	561	61	19	57	22	37.7	39.9	30.4	33.9	15.8	43.3	15.8	43.3	15.8	43.3	15.8	43.3	15.8	43.3	15.8	43.3	15.8	43.3	
Engineers, architects, and surveyors		1 587	1 579	8	1 467	8	42	—	26	—	38.1	30.0	100.0	—	13.7	—	13.7	—	13.7	—	13.7	—	13.7	—	13.7	—	13.7	—	
Architects		11	11	—	—	—	—	—	—	—	30.0	30.0	100.0	—	13.7	—	13.7	—	13.7	—	13.7	—	13.7	—	13.7	—	13.7	—	
Engineers		1 563	1 555	8	1 444	8	42	—	26	—	38.4	30.0	22.2	—	13.6	—	13.6	—	13.6	—	13.6	—	13.6	—	13.6	—	13.6	—	
Civil engineers		443	445	—	41	—	4	—	—	—	38.0	30.0	77.8	—	8.9	—	8.9	—	8.9	—	8.9	—	8.9	—	8.9	—	8.9	—	
Electrical and electronic engineers		564	544	8	511	8	19	—	5	—	38.0	30.0	97.3	—	10.7	—	10.7	—	10.7	—	10.7	—	10.7	—	10.7	—	10.7	—	
Industrial engineers		92	84	8	84	8	19	—	12	—	37.4	30.0	55.7	—	10.9	—	10.9	—	10.9	—	10.9	—	10.9	—	10.9	—	10.9	—	
Mechanical engineers		468	468	—	—	—	—	—	9	—	39.3	30.0	26.1	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	
Other engineers		394	394	—	—	—	—	—	12	—	39.0	30.0	27.7	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	16.8	—	
Surveyors and mapping scientists		13	13	—	—	—	—	—	—	—	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Computer systems analysts and scientists		65	56	9	56	9	—	—	—	—	35.0	30.0	100.0	100.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Operations and systems researchers and analysts		37	26	11	18	11	8	—	—	—	39.1	34.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mathematical scientists		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Natural scientists		17	13	4	13	4	—	—	2	—	29.4	25	100.0	100.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Chemists, except biochemists		3	3	—	—	—	—	—	—	—	25	25	100.0	100.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other natural scientists		14	10	4	10	4	—	—	2	—	31.3	25	100.0	100.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Health diagnosing occupations		10	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Health assessment and treating occupations		27	10	27	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Registered nurses		21	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other health assessment and treating occupations		6	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Teachers, except postsecondary		245	101	144	94	138	—	6	7	20	46.6	43.4	34.7	41.0	21.8	63.9	21.8	63.9	21.8	63.9	21.8	63.9	21.8	63.9	21.8	63.9	21.8	63.9	
Social scientists and urban planners		48	46	2	46	2	—	—	—	—	38.8	50.0	71.7	54.5	13.0	—	13.0	—	13.0	—	13.0	—	13.0	—	13.0	—	13.0	—	
Social and recreation workers		11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Lawyers and judges		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Writers, artists, entertainers, and athletes		650	335	315	307	295	11	13	22	2	33.6	41.0	25.4	22.9	29.0	52.7	29.0	52.7	29.0	52.7	29.0	52.7	29.0	52.7	29.0	52.7	29.0	52.7	
Other professional specialty occupations		106	35	71	35	59	—	—	—	—	42.5	30.7	57.1	66.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Technical, sales, and administrative support occupations		55 391	21 879	33 512	20 522	31 787	727	927	1 040	1 178	34.9	37.7	11.4	4.5	18.5	9.1	18.5	9.1	18.5	9.1	18.5	9.1	18.5	9.1	18.5	9.1	18.5	9.1	
Technicians and related support occupations		6 881	6 238	643	5 703	588	286	20	297	23	32.7	31.6	8.7	17.0	30.2	36.1	30.2	36.1	30.2	36.1	30.2	36.1	30.2	36.1	30.2	36.1	30.2	36.1	
Health technicians and technicians		57	44	13	30	6	12	—	2	—	34.2	30.0	29.5	—	18.2	—	18.2	—	18.2	—	18.2	—	18.2	—	18.2	—	18.2	—	
Licensed practical nurses		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other health technicians and technicians		57	44	13	30	6	12	—	2	—	34.2	30.0	29.5	—	18.2	—	18.2	—	18.2	—	18.2	—	18.2	—	18.2	—	18.2	—	
Engineering and science technicians		2 848	2 757	91	2 496	63	128	9	135	8	32.6	34.8	8.1	34.1	15.7	7.7	15.7	7.7	15.7	7.7	15.7	7.7	15.7	7.7	15.7	7.7	15.7	7.7	
Electrical and electronic technicians		2 301	2 239	62	1 993	34	128	9	130	8	33.0	32.1	7.9	35.5	16.3	11.3	16.3	11.3	16.3	11.3	16.3	11.3	16.3	11.3	16.3	11.3	16.3	11.3	
Industrial and mechanical technicians		35	29	6	24	6	—	—	5	—	34.5	40.0	10.3	—	24.1	—	24.1	—	24.1	—	24.1	—	24.1	—	24.1	—	24.1	—	
Drafting and surveying technicians		216	214	2	214	2	—	—	—	—	30.9	30.0	6.1	100.0	15.0	—	15.0												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see appendix A.]

United States																	
Employed persons 16 years and over—Con.																	
Technical, sales, and administrative support occupations—Con.																	
Sales occupations																	
Supervisors and proprietors, sales occupations																	
Self-employed																	
Sales representatives, finance and business services																	
Sales representatives, retail and personal services																	
Sales workers, retail and personal services																	
Cashiers																	
Other sales occupations, retail and personal services																	
Sales related occupations																	
Administrative support occupations, including clerical																	
Supervisors, administrative support occupations																	
Computer equipment operators																	
Secretaries, stenographers, and typists																	
Stenographers and typists																	
Receptionists																	
Other information clerks																	
File clerks																	
Other records processing occupations, except financial																	
Bookkeepers, accounting, and auditing clerks																	
Payroll and timekeeping clerks																	
Other financial records processing occupations																	
Telephone operators																	
Mail and message distributing occupations																	
Production coordinators and expeditors																	
Traffic, shipping, and receiving clerks																	
Stock and inventory clerks																	
Other material recording, scheduling, and distributing clerks																	
Adjusters and investigators																	
Data-entry keyers																	
Other administrative support occupations																	
Service occupations																	
Private household occupations																	
Protective service occupations																	
Guards																	
Other protective service occupations																	
Food preparation and service occupations																	
Health service occupations																	
Cleaning and building service occupations, except household																	
Personal service occupations																	
Farming, forestry, and fishing occupations																	
Precision production, craft, and repair occupations																	
Mechanics and repairers																	
Supervisors, mechanics and repairers																	
Automobile mechanics, including body																	
Industrial machinery repairers																	
Electronic repairers, communications and industrial equipment																	
Heating, air conditioning, and refrigeration mechanics																	
Other mechanics and repairers																	
Construction trades																	
Supervisors, construction occupations																	
Carpenters																	
Electricians																	
Painters, construction and maintenance																	
Plumbers, pipefitters, and steamfitters																	
Other construction trades																	
Percent completed 4 or more years of college																	
Percent self-employed																	
Both sexes																	
Male																	
Female																	
Total																	
Race																	
White																	
Black																	
Spanish origin ^a																	
Median age																	
Percent high school graduates																	
Male																	
Female																	
Male																	
Female																	
Percent completed 4 or more years of college																	
Male																	
Female																	
Percent self-employed																	
Male																	
Female																	

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Other repair services

	United States										Percent self-employed			
	Race										Percent completed 4 or more years of college			
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Male	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Precision production, craft, and repair occupations—Con.														
Extraction occupations	88	80	8	74	8	6	294	4 067	26.0	25.0	72.5	100.0	6.3	7.5
Precision production occupations	53 319	44 085	9 234	39 643	8 717	2 414	294	329	40.7	42.2	61.1	62.1	5.7	48.2
Supervisors, production occupations	4 278	4 095	183	3 819	174	124	—	306	37.4	34.6	67.5	63.9	4.8	9.0
Precision metalworking occupations	7 677	7 499	178	6 889	163	333	10	505	35.2	34.7	68.6	88.8	3.0	16.1
Tool and die makers	944	927	17	851	17	53	—	77	31.2	25.0	73.1	100.0	3.0	41.2
Machinists	3 015	2 982	33	2 789	33	96	—	149	33.2	25.0	73.1	78.8	2.9	7.2
Sheet metal workers	377	377	—	347	—	30	—	34	33.6	—	63.1	—	—	—
Other precision metal workers	3 341	3 213	128	2 902	113	30	10	245	37.5	30.1	63.7	89.8	2.3	22.9
Precision textile, apparel, and furnishings machine workers	26 003	19 131	6 872	16 690	6 509	1 299	205	279	43.9	43.9	53.0	58.0	3.5	64.0
Precision food production occupations	413	334	79	294	66	12	8	22	45.0	39.1	48.2	60.8	0.6	57.8
Precision inspectors, testers, and related workers	315	278	37	233	31	29	6	18	43.9	36.8	73.0	89.2	9.4	4.7
Plant and system operators	238	236	2	195	2	34	—	—	37.3	30.0	74.6	100.0	5.9	20.3
Other precision production occupations	14 395	12 512	1 883	11 523	1 772	583	65	721	38.2	36.4	66.8	73.9	10.9	57.3
Operators, fabricators, and laborers	97 896	91 943	5 953	81 835	5 059	5 407	521	8 431	32.4	34.8	56.9	57.8	2.4	26.2
Machine operators, assemblers, and inspectors	76 991	72 179	4 812	64 596	4 039	3 791	423	6 850	33.1	34.5	58.6	57.3	2.5	29.1
Machine operators and tenders, except precision	14 878	11 979	2 899	10 188	2 599	1 665	195	900	34.2	36.5	58.9	55.3	3.7	23.7
Metalworking and plastic working machine operators	5 487	5 049	438	4 704	381	199	28	235	42.7	30.3	57.6	59.4	5.2	40.2
Metalworking machine operators, n.e.c.	137	107	30	102	30	5	—	—	31.6	54.4	57.0	73.3	3.7	13.1
Metal and plastic processing and woodworking machine operators	539	513	26	440	11	45	9	48	29.5	38.3	68.2	76.9	9.2	21.6
Printing machine operators	213	167	46	133	13	13	—	9	33.2	45.7	57.4	100.0	—	13.0
Textile machine operators	1 011	72	939	32	847	5	43	22	44.2	44.7	56.9	71.7	4.2	15.6
Textile sewing machine operators	72	23	49	15	20	8	21	—	25.0	40.0	52.2	10.2	—	—
Laundry and dry cleaning machine operators	355	338	17	255	32	9	—	9	42.3	59.5	50.9	35.3	2.1	12.7
Food, kind, and oven operators, except food	1 959	1 593	366	1 444	347	53	4	240	36.1	25.4	50.8	59.3	1.5	13.7
Other specified machine operators	4 971	4 031	940	3 550	812	260	71	337	31.7	34.3	62.2	58.9	2.3	8.7
Miscellaneous and not specified machine operators	61 468	59 654	1 814	53 299	1 452	3 099	217	5 919	32.9	32.1	58.4	61.3	2.2	30.5
Fabricators, assemblers, and hand working occupations	57 819	56 854	965	50 751	1 735	2 995	167	5 647	32.9	30.9	58.2	59.3	2.1	30.7
Welders and cutters	143	62	81	35	64	—	15	40	32.1	31.4	48.4	51.9	—	7.4
Solders and brazers	3 265	2 529	736	2 304	621	104	33	222	32.1	33.9	62.6	64.3	4.8	26.2
Assemblers	241	209	32	209	32	—	—	31	29.9	34.0	67.0	78.1	—	24.4
Hand working occupations, testers, samplers, and weighers	645	546	99	509	88	27	11	10	32.4	36.1	66.7	40.4	10.1	2.2
Production inspectors, testers, samplers, and weighers	109	55	54	39	54	6	—	—	27.5	25.0	—	31.5	—	—
Other production inspectors, testers, samplers, and weighers	536	491	45	470	34	21	11	21	32.7	46.4	74.1	51.1	11.2	2.4
Transportation and material moving occupations	6 795	6 550	245	5 673	216	582	21	351	31.0	35.6	55.1	66.1	2.6	7.1
Transportation occupations	5 590	5 372	218	4 611	189	510	21	280	30.4	37.3	55.7	67.9	2.5	4.9
Motor vehicle operators	5 507	5 292	215	4 544	186	510	21	280	30.5	37.5	55.5	67.4	2.5	4.9
Truck drivers	5 008	4 838	170	4 149	149	439	13	264	30.2	35.0	54.5	68.8	2.0	4.3
Other motor vehicle operators	235	235	29	264	21	14	8	9	35.3	41.8	60.9	61.8	6.0	12.3
Other motor vehicle operators	235	219	16	174	16	37	—	7	31.8	40.0	71.7	100.0	8.7	8.7
Rail and water transportation occupations	83	80	3	67	3	72	—	71	27.3	25.0	67.5	51.9	2.5	7.5
Material moving occupations	1 205	1 178	27	1 062	27	—	—	—	33.2	25.0	52.3	51.9	3.1	17.0
Supervisors, material moving equipment operators	20	20	—	197	—	—	—	10	35.9	—	56.9	—	7.6	—
Crane, hoist and winch operators	197	197	—	197	—	—	—	20	35.5	25.0	50.0	100.0	—	37.4
Excavating, grading, and dozer machine operators	390	388	2	372	2	10	—	41	30.9	25.0	51.5	48.0	2.3	9.2
Other material moving equipment operators	598	573	25	473	25	62	—	—	30.9	25.0	—	—	—	8.0
Handlers, equipment cleaners, helpers, and laborers	14 110	13 214	896	11 566	774	1 034	77	1 230	28.1	36.8	48.8	58.0	1.9	19.7
Supervisors, handlers, equipment cleaners, and laborers	34	34	—	34	—	—	—	—	50.0	—	100.0	—	32.4	29.4
Helpers, craft and production	3 393	3 130	263	2 712	190	232	56	489	25.0	44.1	43.5	54.0	0.7	1.3
Construction laborers	264	264	10	226	10	6	—	22	33.8	25.0	55.1	50.0	7.9	13.3
Freight, stock, and material handlers	479	450	29	416	21	34	8	40	25.0	55.9	49.1	27.6	0.9	0.7
Garage and service station occupations, and equipment	1 727	1 645	82	1 348	76	188	6	251	30.8	25.0	52.3	73.2	3.2	21.0
Hand packers and packagers	359	228	131	184	125	44	6	428	25.0	34.9	49.6	38.2	1.5	2.6
Laborers, except construction	7 854	7 473	381	6 646	352	530	9	—	31.3	35.2	49.8	66.9	1.7	29.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Hotels and lodging places										Percent self-employed		
	Total					Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Both sexes	Male	Female	White	Black	Male	Female	Male	Female	Male	Female	Male	Female
United States													
Employed persons 16 years and over	1 051 809	395 636	656 173	308 773	506 898	47 361	101 770	44 554	48 816	33.3	61.8	13.2	5.7
Managerial and professional specialty occupations	162 815	96 637	66 178	87 149	60 154	3 357	2 899	4 399	2 046	40.9	81.1	29.1	14.8
Executive, administrative, and managerial occupations	148 534	88 168	60 366	79 554	54 978	2 918	2 555	3 732	1 882	42.0	80.2	29.0	13.2
Offices and administrators, public administration	2 269	1 484	785	1 320	757	35	14	61	16	34.7	98.9	60.0	19.9
Financial managers	4 176	1 663	2 440	1 617	2 374	11	11	71	25	33.4	98.1	49.8	26.8
Managers, marketing, advertising, and public relations	176	72	104	1 617	2 374	—	—	—	—	45.7	92.3	47.2	36.5
Administrators, education and related fields	5 146	2 839	2 307	2 570	2 034	119	118	112	94	43.1	84.9	28.9	14.9
Managers, medicine and health	118 633	71 050	47 583	64 432	43 536	2 245	1 887	2 798	1 433	43.8	82.5	26.8	11.5
Other specialized occupations	88 089	53 351	34 738	45 050	31 591	2 027	1 741	2 547	1 232	40.4	84.6	28.9	11.9
Managers and administrators, n.e.c.	30 544	17 699	12 845	15 992	11 945	218	146	251	201	50.8	76.1	20.3	10.6
Self-employed	18 207	11 060	7 147	9 543	6 173	508	475	684	314	32.9	93.7	35.7	17.7
Management related occupations	13 715	8 562	5 153	7 467	4 492	115	184	101	81	32.4	93.2	37.4	15.5
Accountants and auditors	2 183	963	1 220	757	416	40	28	82	5	35.6	88.1	21.1	15.9
Personnel, training, and labor relations specialists	1 471	1 037	434	889	416	—	—	—	—	48.5	100.0	25.0	—
Buyers and purchasing agents	140	48	92	48	37	8	8	23	13	41.4	95.1	48.7	29.4
Inspectors and compliance officers	698	450	248	382	235	—	—	—	—	31.6	86.8	30.7	32.0
Other management related occupations	14 281	8 469	5 812	7 595	5 176	439	364	667	164	39.0	83.3	23.4	11.6
Professional specialty occupations	1 018	917	101	732	101	135	9	133	7	36.6	91.1	47.0	51.0
Engineers, architects, and surveyors	117	66	51	67	51	126	9	126	7	33.1	100.0	21.5	30.0
Architects	895	845	50	104	50	69	39	18	18	39.2	95.8	27.1	—
Engineers	123	118	5	198	12	10	10	28	28	40.4	78.6	34.7	—
Civil engineers	271	271	12	145	12	39	8	67	13	33.8	91.4	19.9	45.5
Electrical and electronic engineers	87	75	12	165	12	—	—	—	—	—	100.0	—	—
Industrial engineers	229	229	33	144	33	—	—	—	—	25	100.0	33.3	—
Mechanical engineers	185	132	53	6	6	—	—	—	—	27.5	100.0	55.5	55.6
Other engineers	6	6	—	—	—	—	—	—	—	46.1	100.0	33.3	63.2
Surveyors and mapping scientists	191	128	63	104	63	6	6	4	—	30.0	100.0	63.6	48.0
Computer systems analysts and scientists	61	42	19	42	13	—	—	—	—	30.9	88.7	35.6	47.2
Operations and systems researchers and analysts	86	11	75	11	69	—	—	—	—	—	—	—	—
Mathematical scientists	112	59	53	45	53	14	—	—	—	29.1	64.4	35.6	47.2
Natural scientists	112	59	53	45	53	14	—	—	—	29.1	64.4	35.6	47.2
Chemists, except biochemists	18	18	—	—	—	—	—	—	—	30.9	100.0	—	—
Other natural scientists	548	97	451	88	383	7	38	—	12	38.6	100.0	61.9	27.7
Health diagnosing occupations	325	15	310	15	265	—	—	—	12	42.5	100.0	97.4	31.3
Health assessment and treating occupations	223	82	141	73	118	—	—	—	12	35.4	100.0	73.2	19.9
Other health assessment and treating occupations	3 030	1 489	1 541	1 411	1 442	49	73	79	32	26.5	92.4	35.9	34.8
Registered nurses	301	179	122	172	119	7	132	4	7	32.4	100.0	52.5	42.6
Teachers, except postsecondary	1 362	683	677	603	517	56	7	21	25	25	78.5	30.2	27.9
Social scientists and urban planners	148	148	19	136	13	6	6	10	10	33.0	100.0	100.0	52.6
Social and recreation workers	6 842	4 375	2 467	3 940	2 230	128	74	408	75	32.7	85.0	24.5	28.5
Lawyers and judges	545	321	224	280	173	30	41	8	8	40.4	92.8	44.9	41.1
Writers, artists, entertainers, and athletes	165 959	42 967	123 002	36 435	108 260	3 324	8 807	2 842	5 790	31.0	81.3	18.4	7.6
Other professional specialty occupations	1 954	874	1 080	752	414	102	48	45	8	30.9	87.1	15.9	24.2
Technical, sales, and administrative support occupations	198	43	155	43	103	—	—	—	—	29.2	81.3	—	9.0
Technicians and related support occupations	126	—	126	—	—	—	—	—	—	—	—	—	—
Health technicians and technicians	72	43	29	43	29	—	—	—	—	29.2	67.4	—	27.6
Dental practitioners	541	457	104	385	92	58	—	45	—	36.4	100.0	8.5	38.5
Other health technicians and technicians	169	169	—	155	—	—	—	12	—	39.2	100.0	4.1	—
Engineering and science technicians	26	26	—	26	—	—	—	5	—	48.5	57.7	23.1	—
Electrical and electronic technicians	161	95	66	84	66	11	—	—	—	31.0	100.0	22.1	15.2
Industrial and mechanical engineering technicians	205	167	38	120	26	47	—	28	—	32.4	95.3	3.0	78.9
Drafting and surveying technicians	595	374	221	324	190	44	31	—	—	28.2	98.7	26.7	28.1
Other engineering and science technicians	65	65	—	53	—	—	—	—	—	30.6	100.0	43.1	—
Technicians, except health, engineering, and science	90	48	42	34	—	10	8	—	—	25	89.6	—	—
Airplane pilots and navigators	267	172	95	138	65	28	10	—	—	30.0	100.0	30.2	7.1
Air traffic controllers and broadcast equipment operators	173	89	84	83	71	6	13	—	—	29.3	100.0	22.5	46.3
Computer programmers	—	—	—	—	—	—	—	—	—	75	88.1	17.9	17.9
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—

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Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

Hotels and lodging places											
United States											
Employed persons 16 years and over—Con.											
Technical, sales, and administrative support occupations—Con.											
Sales occupations											
Supervisors and proprietors, sales occupations											
Sales representatives, finance and business services											
Sales representatives, commodities, except retail											
Sales workers, retail and personal services											
Cashiers											
Other sales occupations, retail and personal services											
Sales related occupations											
Administrative support occupations, including clerical											
Supervisors, administrative support occupations											
Computer equipment operators											
Secretaries, stenographers, and typists											
Stenographers and typists											
Receptionists											
Other information clerks											
File clerks											
Other records processing occupations, except financial											
Bookkeepers, accounting, and auditing clerks											
Payroll and timekeeping clerks											
Other financial records processing occupations											
Telephone operators											
Mail and message distributing occupations											
Production coordinators and expeditors											
Traffic, shipping, and receiving clerks											
Stock and inventory clerks											
Other material recording, scheduling, and distributing clerks											
Adjusters and investigators											
Data-entry keyers											
Other administrative support occupations											
Service occupations											
Private household occupations											
Protective service occupations											
Guards											
Other protective service occupations											
Service occupations, except protective and household											
Food preparation and service occupations											
Health service occupations											
Cleaning and building service occupations, except household											
Personal service occupations											
Farming, forestry, and fishing occupations											
Precision production, craft, and repair occupations											
Mechanics and repairers											
Supervisors, mechanics and repairers											
Automobile mechanics, including body											
Industrial machinery repairers											
Electronic repairers, communications and industrial equipment											
Heating, air conditioning, and refrigeration mechanics											
Other mechanics and repairers											
Construction trades											
Supervisors, construction occupations											
Carpenters											
Electricians											
Painters, construction and maintenance											
Plumbers, pipefitters, and steamfitters											
Other construction trades											

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Hotels and lodging places									
	Race		Black		Spanish origin ¹		Median age		Percent high school graduates	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States										
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Extrusive occupations	4	4	4	4	4	4	4	4	4	4
Precision production occupations	8 462	6 602	1 860	1 202	5 412	497	39.9	25.0	68.0	100.0
Supervisor, machine operators	2 436	1 771	1 265	941	941	404	40.3	41.9	74.4	54.5
Precision machine operators	239	207	32	16	180	16	38.4	42.3	72.4	52.6
Tool and die makers	128	128	17	16	107	16	34.6	30.0	68.8	100.0
Mechanists	33	17	16	16	17	16	45.6	31.2	52.9	51.6
Sheet metal workers	78	62	16	16	56	16	48.5	31.2	51.6	56.3
Other precision metal workers	505	230	275	182	175	109	43.4	50.7	56.5	53.1
Precision textile, apparel, and furnishings machine workers	865	709	136	107	173	107	43.4	50.7	56.5	53.1
Precision food production occupations	18	18	18	18	18	18	45.1	37.1	100.0	72.6
Precision inspectors, testers, and related workers	4 255	4 138	117	93	348	16	33.3	37.1	70.4	100.0
Plant and system operators	4 143	4 128	117	93	348	16	33.3	37.1	70.4	100.0
Other precision production occupations	35 059	16 625	18 434	11 022	11 802	5 349	29.5	41.5	57.1	38.3
Operators, fabricators, and laborers	20 747	4 175	15 972	9 484	3 082	4 622	31.8	42.4	51.5	36.9
Machine operators, assemblers, and inspectors	19 569	4 150	15 419	9 195	2 599	4 442	32.0	42.5	49.7	36.6
Machine operators and tenders, except precision	66	59	8	8	46	2	25.0	25.0	39.0	28.6
Metalworking and plastic working machine operators	11	8	3	3	4	2	25.0	25.0	39.0	28.6
Fabricating machine operators, n.e.c.	516	86	430	80	383	47	30.6	34.6	81.4	60.9
Metal and plastic processing and woodworking machine operators	27	27	27	27	27	27	37.1	37.1	65.1	90.9
Printing machine operators	516	86	430	80	383	47	30.6	34.6	81.4	60.9
Textile sewing machine operators	332	14	518	6	6	148	40.0	59.2	100.0	34.2
Laundry and dry cleaning machine operators	15 540	2 100	13 440	8 049	1 223	3 910	30.3	42.4	42.0	34.8
Packaging and filling machine operators	6	6	6	6	6	6	41.5	42.6	76.2	—
Engraving, kiln, and oven operators, except food	147	147	659	282	137	255	38.6	42.6	56.4	—
Other specified machine operators	1 131	472	659	282	345	80	49	35.7	54.9	—
Miscellaneous and not specified machine operators	1 528	1 214	314	174	724	233	32.7	35.7	33.3	—
Fabricators, assemblers, and hand working occupations	628	516	112	82	402	11	30.0	34.7	65.7	38.4
Welders and cutters	240	235	7	7	187	27	29.8	30.0	70.0	3.5
Solders and brazers	22	22	22	22	22	22	25.0	25.0	58.8	3.4
Assemblers	288	209	77	49	156	11	29.9	39.3	57.9	—
Hand working occupations	78	57	21	21	49	7	31.7	25.0	57.9	—
Production inspectors, testers, samplers, and weighers	550	109	441	204	81	169	33.6	41.2	56.0	—
Graders and sorters, except agricultural	71	15	56	29	4	12	41.8	30.2	33.3	—
Other production inspectors, testers, samplers, and weighers	479	94	385	175	76	157	31.4	42.7	59.6	—
Transportation and material moving occupations	6 764	6 059	705	496	4 554	177	28.5	32.2	67.8	63.0
Transportation occupations	6 278	5 600	678	474	4 141	177	28.4	32.1	67.9	61.5
Motor vehicle operators	1 178	5 508	670	466	1 058	177	28.4	31.8	68.7	61.0
Truck drivers	212	210	323	199	262	119	30.4	38.7	60.8	56.3
Other motor vehicle operators	4 207	210	323	199	262	119	30.4	38.7	60.8	56.3
Other motor vehicle operators	4 207	210	323	199	262	119	30.4	38.7	60.8	56.3
Rail and water transportation occupations	100	92	8	8	65	58	27.0	25.0	71.3	65.2
Supervisors, nonfarm, nonproduction occupations	486	459	27	22	413	5	29.5	34.2	66.7	100.0
Supervisors, nonfarm, nonproduction occupations	21	21	21	21	21	21	25.0	25.0	81.0	—
Crane, hoist, and derrick operators	88	88	88	88	88	88	39.1	34.2	58.0	—
Conveying, grading, and dozer machine operators	372	345	27	22	304	5	28.3	34.2	67.5	100.0
Other material moving equipment operators	7 548	5 791	1 757	1 042	4 166	550	28.5	36.7	50.4	41.6
Handlers, equipment cleaners, helpers, and laborers	66	35	31	17	28	14	30.7	57.6	34.3	25.8
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	483	330	153	82	263	45	26.8	37.0	45.5	—
Helpers, craft and production	548	330	213	123	482	23	27.5	25.0	56.3	69.6
Construction laborers	1 122	1 057	65	44	774	15	29.2	36.9	60.0	—
Freight, stock, and material handlers	611	407	204	129	233	69	30.6	41.7	50.4	39.7
Garage and service station occupations, and equipment cleaners	93	33	60	13	21	47	31.4	31.0	42.4	24.2
Hand packers and packagers	4 605	3 384	1 221	734	2 365	360	28.2	36.0	47.1	4.0
Laborers, except construction										

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Employed persons 16 years and over																
Other personal services, including private household																
Race																
Total																
White																
Black																
Spanish origin ¹																
Median age																
Percent high school graduates																
Percent completed 4 or more years of college																
Percent self-employed																
Both sexes																
Male																
Female																
2 023 955	514 822	1 509 133	420 021	1 076 623	67 170	354 923	39 891	115 637	41.2	41.4	64.9	55.7	9.1	3.0	31.6	14.8
178 822	113 721	65 101	102 646	58 497	7 311	4 440	3 828	2 394	42.1	37.8	86.6	81.0	24.1	16.3	34.7	21.8
120 942	85 119	35 823	76 620	31 593	5 880	2 770	2 541	1 472	44.6	41.7	85.5	77.3	22.0	11.9	28.8	23.8
3 244	2 152	1 092	2 088	1 069	4	187	24	6	42.6	42.1	92.1	92.0	62.0	24.6	2.5	7.0
253	79	174	55	1	11	8	13	24	36.3	37.0	92.4	93.1	35.4	28.2	25.3	10.3
39 898	44 529	4 069	32 362	3 242	3 144	778	477	89	44.2	48.3	91.5	86.9	22.6	21.5	22.6	29.2
72 706	44 529	28 147	39 850	25 030	2 498	1 761	1 947	1 288	45.4	42.0	80.4	74.3	20.1	9.4	35.9	25.1
48 306	28 271	20 035	25 937	18 101	1 463	1 343	1 209	870	42.6	39.6	83.7	74.0	22.3	9.4	—	—
24 400	16 288	8 112	13 913	6 929	1 035	418	738	418	49.5	46.9	74.6	75.2	16.4	9.5	98.3	87.0
4 134	2 013	2 121	1 804	1 896	173	188	51	65	40.9	34.0	87.3	89.3	38.0	21.2	11.5	8.3
1 507	714	793	666	744	28	102	40	27	42.2	32.7	94.8	93.4	63.4	25.6	15.3	3.3
1 432	801	631	659	522	126	102	11	28	35.8	37.4	83.0	85.6	19.5	11.9	7.1	12.5
315	154	161	141	122	13	39	—	5	42.6	35.6	88.3	82.6	20.1	28.6	8.4	13.0
23	16	7	16	5	—	—	—	—	57.0	36.3	100.0	71.4	37.5	—	—	—
857	328	529	322	503	6	20	—	5	49.1	31.6	80.5	89.6	36.3	23.6	16.2	9.5
57 880	28 602	29 278	26 026	26 904	1 431	1 670	1 287	922	34.6	33.2	89.8	85.6	30.4	21.7	52.2	19.4
491	415	76	323	76	29	—	18	—	39.9	33.7	90.4	76.3	31.1	10.5	10.8	22.4
45	32	13	23	13	—	—	—	—	31.9	33.1	65.6	100.0	53.1	38.5	18.8	42.5
426	363	63	280	63	29	—	18	—	40.0	34.0	92.0	71.4	29.2	4.8	9.1	14.3
12	12	—	9	—	—	—	—	—	49.3	—	44.7	—	41.7	—	—	—
18	18	—	12	—	6	—	7	—	50.0	40.0	66.7	100.0	31.0	27.3	12.1	—
69	58	11	32	11	—	—	11	—	30.3	30.3	100.0	100.0	5.1	—	3.8	—
158	158	—	124	—	23	—	—	—	38.0	—	100.0	65.4	64.1	—	17.1	—
169	117	52	103	52	—	—	—	—	44.3	30.3	100.0	—	30.0	—	30.0	—
20	20	—	—	—	—	—	—	—	51.7	—	100.0	—	—	—	—	—
58	52	6	48	6	—	—	—	—	31.2	30.0	100.0	100.0	61.5	—	19.2	—
25	15	10	10	10	5	—	—	—	46.7	45.0	100.0	100.0	66.7	—	—	50.0
15	4	11	4	11	—	—	—	—	30.0	31.9	100.0	100.0	100.0	18.2	—	—
171	124	47	124	47	—	—	—	—	30.4	29.7	100.0	72.3	65.3	27.7	8.9	14.9
19	19	—	19	—	—	—	—	—	32.9	—	100.0	—	31.6	—	—	—
152	105	47	105	47	—	—	—	—	29.6	29.7	100.0	72.3	31.6	27.7	10.5	14.9
261	133	128	99	94	18	22	10	32	42.9	40.3	100.0	100.0	72.9	28.1	46.6	50.0
7 008	446	6 562	366	5 311	56	1 036	20	176	35.6	45.1	88.1	84.9	43.3	22.3	13.2	4.0
5 742	210	5 532	156	4 373	48	1 012	14	119	40.7	47.4	83.3	84.6	45.7	20.4	1.4	1.4
1 266	236	1 030	210	938	8	24	6	57	32.7	32.1	92.4	86.5	41.1	32.1	25.0	17.9
10 768	2 418	8 350	2 204	7 948	120	209	132	346	25	25	85.9	82.1	20.8	15.7	7.0	10.4
624	280	344	270	326	—	—	—	—	38.5	48.3	99.3	94.8	70.4	48.5	45.0	59.9
932	212	720	207	627	5	—	24	56	34.8	33.7	82.5	81.1	43.9	20.4	17.9	8.6
109	103	6	103	6	—	—	—	—	43.8	25	100.0	100.0	91.3	66.7	32.0	66.7
36 736	24 076	12 640	21 973	12 094	1 188	303	1 045	312	34.0	33.8	90.0	88.3	29.5	24.5	59.3	33.0
682	304	378	275	346	10	32	18	—	37.7	35.0	92.4	85.2	54.9	26.5	36.2	6.6
181 951	30 945	151 006	26 837	131 069	2 539	14 947	1 982	6 835	34.2	38.4	75.4	68.2	12.6	4.7	10.8	3.9
16 094	4 573	11 521	4 025	8 116	420	3 055	1 282	580	33.2	49.2	90.4	58.8	12.9	3.7	8.7	1.3
10 794	2 381	10 413	3 273	7 138	58	2 937	12	548	34.4	50.8	74.5	55.9	8.4	2.6	—	0.3
10 465	249	10 216	203	6 982	46	2 906	12	523	33.7	51.0	75.9	55.4	6.4	2.6	—	0.1
329	132	197	120	154	12	31	—	25	36.3	37.7	72.0	85.8	12.1	2.5	—	8.6
823	560	263	478	248	23	15	66	7	30.8	33.1	80.9	75.7	14.5	5.7	10.5	8.4
179	128	51	99	51	—	—	23	7	31.3	32.2	87.5	78.8	12.5	—	15.6	9.8
38	23	15	23	15	—	—	—	—	46.0	25	47.8	40.0	—	—	—	40.0
125	73	52	65	51	—	—	15	—	30.4	37.0	82.2	78.8	26.0	11.5	8.2	11.5
481	336	145	291	131	23	14	28	—	30.7	32.8	80.4	84.1	13.7	6.2	9.8	3.4
4 477	3 632	845	3 224	732	339	103	47	25	33.5	27.6	93.5	89.6	13.1	17.2	9.4	11.4
19	13	6	13	—	—	—	—	—	30.0	60.0	100.0	100.0	53.8	—	53.8	—
41	39	2	39	2	—	—	—	—	33.5	25	59.0	—	—	—	25.6	—
175	82	93	66	86	—	—	—	—	25	26.0	100.0	100.0	24.4	9.7	—	—
4 242	3 498	744	3 106	644	339	96	47	19	33.7	27.8	93.7	88.4	12.8	18.3	9.2	12.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other personal services, including private household									
	Total		White		Black		Spanish origin ¹		Median age	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	76 357	17 052	59 305	15 300	51 200	1 007	5 702	2 718	36.1	36.8
Supervisors and proprietors, sales occupations	5 477	3 167	2 310	2 823	2 042	131	78	148	42.8	42.5
Salaries	3 815	2 122	1 693	1 957	1 538	56	20	66	39.7	40.6
Self-employed	1 662	1 045	617	866	504	56	20	66	47.7	46.2
Sales representatives, finance and business services	384	171	213	150	198	—	—	—	39.0	34.3
Sales representatives, commodities, except retail	380	79	301	121	179	—	—	—	46.0	30.9
Sales workers, retail and personal services	69 870	13 548	56 322	12 174	48 569	876	5 564	2 543	33.9	36.5
Cashiers	9 691	750	8 941	1 354	7 095	163	1 389	630	25.5	27.4
Other sales occupations, retail and personal services	60 779	12 798	47 981	11 620	41 414	713	4 225	1 913	34.6	36.6
Sales related occupations	246	87	159	74	121	—	—	—	28.1	28.1
Administrative support occupations, including clerical	89 500	9 320	80 180	7 512	71 753	1 112	6 190	3 537	32.1	37.9
Supervisors, administrative support occupations	2 774	924	1 850	2 783	1 584	93	210	118	38.4	39.5
Computer equipment operators	885	276	609	261	524	—	41	54	30.5	31.2
Secretaries, stenographers, and typists	18 390	403	17 987	346	16 293	48	1 371	503	37.3	37.8
Secretaries	16 435	339	16 096	301	14 659	38	1 180	405	35.4	37.8
Stenographers and typists	1 955	64	1 891	45	1 634	10	191	98	25.5	33.0
Receptionists	20 071	690	19 381	625	18 133	38	730	840	28.6	33.3
Other information clerks	1 482	114	1 368	341	1 006	11	86	61	49.6	41.0
File clerks	1 365	36	1 329	27	1 283	9	42	25	25.5	41.7
Other records processing occupations, except financial	1 802	281	1 521	173	1 283	74	177	121	27.7	34.1
Bookkeepers, accounting, and auditing clerks	13 260	1 030	12 230	799	11 378	95	624	318	40.4	43.3
Payroll and timekeeping clerks	654	29	625	17	575	—	35	5	45.9	39.8
Other financial records processing occupations	762	71	691	64	570	—	87	14	46.2	38.8
Telephone operators	1 201	729	472	544	398	69	258	66	25.0	30.6
Mail and message distributing occupations	1 043	206	837	196	742	6	82	50	32.7	43.0
Production coordinators and expeditors	1 841	678	1 163	427	721	183	378	134	28.5	37.6
Traffic, shipping, and receiving clerks	1 801	301	1 500	375	686	54	230	142	23.0	34.1
Stock and inventory clerks	2 967	316	2 651	248	2 019	57	453	202	29.8	40.7
Other materials recording, scheduling, and distributing clerks	1 251	52	1 199	49	1 150	16	84	16	26.0	34.3
Adjusters and inspectors	874	38	836	16	693	26	93	5	26.0	34.3
Gate-entrance keepers	17 374	2 072	15 302	1 686	13 432	277	1 381	688	31.1	40.6
Other administrative support occupations										
Service occupations	1 336 708	211 031	1 125 677	171 155	778 668	28 808	291 297	87 909	42.1	41.5
Private household occupations	589 352	26 466	562 886	15 451	297 021	8 693	233 024	52 922	42.9	49.2
Protective service occupations	1 812	1 239	573	1 574	477	210	90	45	45.3	32.0
Guards	1 690	1 195	495	942	430	203	59	28	45.4	30.9
Other protective service occupations	122	44	78	32	47	7	31	17	42.8	37.5
Service occupations, except protective and household	745 544	183 326	562 218	154 730	481 170	19 905	58 183	34 942	42.0	35.4
Food preparation and service occupations	2 249	836	1 413	1 550	1 178	220	173	84	33.4	37.4
Health service occupations	30 114	1 613	28 501	1 148	19 076	386	8 501	1 781	37.3	52.0
Cleaning and building service occupations, except household	56 768	21 560	35 208	15 094	17 647	5 020	15 244	3 781	34.8	48.0
Personal service occupations	656 413	159 317	497 096	137 938	443 269	14 279	34 265	29 290	42.5	34.3
Farming, forestry, and fishing occupations	18 077	16 427	1 650	11 249	1 372	3 726	142	179	38.0	31.8
Precision production, craft, and repair occupations	74 892	37 402	37 490	30 718	30 343	4 372	3 848	3 246	47.1	49.0
Mechanics and repairers	6 727	6 215	512	5 478	488	503	16	20	40.1	42.5
Supervisors, mechanics and repairers	1 192	1 173	19	1 466	19	23	—	8	46.1	46.4
Automobile mechanics, including body	872	831	41	739	41	82	—	25	36.7	33.6
Industrial machinery repairers	2 266	2 193	73	1 941	73	151	—	6	40.6	52.4
Electronic repairers, communications and industrial equipment	57	55	2	55	2	—	—	7	34.5	25.5
Heating, air conditioning, and refrigeration mechanics	59	56	3	26	3	30	—	—	42.7	60.0
Other mechanics and repairers	3 281	2 907	374	2 571	350	217	16	14	40.1	39.2
Construction trades	5 284	4 867	417	3 985	362	645	47	293	35.5	33.7
Supervisors, construction occupations	263	135	108	127	93	46	15	6	31.3	43.2
Carpenters	1 824	1 739	65	1 491	57	227	8	5	40.6	46.5
Electricians	241	231	10	208	2	21	—	8	37.9	31.3
Painters, construction and maintenance	1 706	1 545	161	1 377	137	224	24	122	29.5	28.7
Plumbers, pipefitters, and steamfitters	203	198	5	168	5	10	—	8	52.9	40.0
Other construction trades	1 047	979	68	810	68	147	—	71	32.2	34.5

Because of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Other personal services, including private household																
United States																
Occupation	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black											
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	23	23	—	20	—	3	—	2 403	3 213	—	57.7	—	5.6	6.9	—	
Precision production occupations	62 858	26 297	36 561	21 235	29 493	3 221	3 785	2 603	3 744	46.4	58.4	8.3	18.3	4.4	54.6	
Supervisors, production occupations	10 113	5 900	4 213	4 839	3 278	730	666	80	24	34.1	42.6	4.6	20.0	—	12.5	
Precision metalworking occupations	545	416	129	306	86	47	37	80	24	30.0	100.0	—	—	—	20.2	
Tool and die makers	5	5	—	5	—	—	—	—	—	—	—	—	—	—	—	
Machinists	352	287	65	185	36	47	23	72	24	30.4	26.2	6.6	—	—	—	
Sheet metal workers	33	33	25	25	—	—	—	—	—	49.6	45.5	—	30.3	—	40.6	
Other precision metal workers	155	91	64	91	—	—	14	—	—	56.4	26.4	—	38.5	—	36.0	
Precision textile, apparel, and furnishings machine workers	51 233	19 232	32 001	15 498	25 990	2 342	3 020	2 046	2 790	52.0	57.7	4.8	60.0	9.3	60.5	
Precision food production occupations	110	35	75	35	41	—	17	15	—	46.0	45.7	61.3	65.7	—	36.0	
Precision inspectors, testers, and related workers	77	77	42	42	—	35	—	—	—	25	31.2	—	20.8	—	18.9	
Plant and system operators	591	538	53	450	44	59	9	16	10	43.5	26.4	7.1	14.4	—	5.6	
Other precision production occupations	189	99	65	65	54	8	36	31	10	37.3	43.4	13.1	18.2	—	—	
Operators, fabricators, and laborers	233 505	105 296	128 209	77 416	76 674	20 414	40 249	10 098	15 074	37.1	54.6	4.3	15.6	1.4	4.0	
Machine operators, assemblers, and inspectors	176 091	59 737	116 354	40 453	68 980	13 723	37 325	6 675	13 374	37.8	52.7	4.8	23.0	1.3	4.0	
Machine operators and tenders, except precision	168 551	58 568	109 983	39 581	64 900	13 506	35 348	6 508	12 835	38.1	52.6	4.8	23.3	1.3	4.1	
Metalworking and plastic working machine operators	136	91	45	61	35	30	10	—	—	34.8	60.4	—	—	—	—	
Robotizing machine operators, n.e.c.	28	—	28	—	—	—	—	—	—	—	53.6	—	—	—	—	
Metal and plastic processing and woodworking machine operators	914	168	746	513	27	27	204	—	—	31.9	58.3	3.6	11.3	2.0	18.8	
Drilling machine operators	892	325	567	462	60	60	80	16	38	30.8	84.9	72.8	11.4	5.8	6.0	
Textile machine operators	315	154	92	96	37	37	65	13	11	32.8	30.5	3.2	40.9	2.5	2.5	
Textile sewing machine operators	10 271	324	9 947	7 200	52	52	661	63	1 013	39.5	37.2	48.9	16.4	2.8	4.6	
Laundry and dry cleaning machine operators	93 395	43 054	50 341	31 772	31 121	7 631	14 171	4 116	6 462	36.4	55.8	39.2	28.4	5.0	5.9	
Packaging and filling machine operators	89	161	17	17	—	—	19	11	6	25	—	—	—	—	—	
Furnace, kiln, and oven operators, except food	217	192	25	142	11	38	14	22	6	44.3	59.4	44.0	4.7	4.2	1.9	
Other specified machine operators	59 380	13 042	46 338	6 114	24 428	5 306	18 526	2 121	5 004	45.3	42.8	37.4	8.7	1.2	3.8	
Miscellaneous and not specified machine operators	2 914	1 197	787	969	301	301	598	146	249	33.2	41.9	36.6	9.4	1.1	—	
Fabricators, assemblers, and hand working occupations	1 850	704	1 146	531	832	98	256	127	149	27.3	57.8	4.8	10.9	2.0	4.5	
Welders and cutters	232	215	17	186	15	20	40	—	—	29.4	68.9	35.3	8.9	—	—	
Solders and brazers	35	20	15	15	—	—	—	—	—	30.0	86.7	75.0	13.3	—	35.0	
Assemblers	1 358	356	1 002	274	740	52	217	60	136	25	52.5	52.6	3.9	1.6	2.1	
Hand working occupations	205	98	107	67	60	16	39	27	8	29.2	45.9	41.1	40.8	7.1	22.4	
Production inspectors, testers, suppliers, and weighers	5 690	465	5 225	335	3 248	119	1 631	40	390	31.2	49.0	42.2	5.8	1.1	6.0	
Graders and sorters, except agricultural	182	48	134	38	79	10	44	6	6	25.6	58.3	36.6	—	—	—	
Other production inspectors, testers, suppliers, and weighers	5 508	417	5 091	297	3 169	109	1 587	34	384	32.1	48.0	42.3	6.5	1.2	0.7	
Transportation and material moving occupations	35 540	33 298	2 242	28 331	1 688	3 936	373	1 947	291	38.1	54.7	59.1	3.4	2.8	8.3	
Transportation occupations	34 943	32 792	2 151	27 977	1 645	3 792	320	1 919	272	38.3	64.9	59.5	3.3	2.8	8.6	
Motor vehicle operators	34 698	32 571	2 127	27 756	1 634	3 792	347	1 919	272	38.2	64.7	59.0	3.3	2.9	8.1	
Truck drivers	17 207	16 118	1 089	13 526	850	1 972	156	1 112	163	37.4	62.6	57.8	3.7	2.2	10.2	
Other motor vehicle operators	10 810	10 358	452	9 497	364	625	56	48	48	39.2	71.1	57.0	4.2	1.1	15.3	
Other material moving occupations	6 481	6 095	586	4 320	420	1 197	115	315	61	47.8	37.7	65.2	2.6	5.8	—	
Rail and water transportation occupations	245	221	24	221	11	—	13	28	19	41.1	81.4	100.0	8.1	—	54.2	
Material moving equipment operators	597	506	91	354	43	147	33	28	19	29.1	40.2	51.6	8.5	—	—	
Open pit and underground mining equipment operators	14	14	—	12	—	—	—	—	—	36.7	85.7	—	20.9	—	—	
Cone, hoist, and winch operators	76	67	9	44	9	23	—	—	—	31.8	34.3	—	15.0	—	—	
Excavating, grading, and dozer machine operators	100	100	—	74	—	—	—	—	—	33.1	39.0	—	—	—	—	
Other material moving equipment operators	407	325	82	224	34	56	33	28	19	27.9	41.2	54.9	4.3	—	—	
Handlers, equipment cleaners, helpers, and laborers	21 874	12 261	9 613	8 632	6 006	2 752	2 641	1 476	1 409	30.6	40.0	40.4	3.3	1.6	3.6	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	78	60	18	52	7	8	11	5	—	35.6	88.3	72.2	10.0	—	11.1	
Helpers, craft and production	1 004	423	581	291	370	51	158	68	72	25	24.6	41.8	0.9	—	4.5	
Construction laborers	533	496	37	435	23	23	6	28	12	33.7	39.1	78.4	2.1	32.4	—	
Freight, stock, and material handlers	1 828	1 198	630	869	344	23	251	110	19	25	36.4	45.4	1.7	1.9	1.1	
Garage and service station occupations, and equipment cleaners	1 279	659	620	480	474	125	127	69	12	35.2	42.1	43.2	4.9	—	7.9	
Hand packers and packagers	2 567	1 332	1 235	246	1 260	91	471	173	401	25	37.5	30.0	3.0	0.7	0.3	
Laborers, except construction	14 585	8 990	5 595	6 259	3 526	2 101	1 417	1 023	893	32.8	40.4	37.6	16.4	2.0	4.6	

¹Persons of Spanish origin may be of any race.

Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Entertainment and recreation services

	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
	Both sexes	Male	Female	Male											Female	
Employed persons 16 years and over																
Managerial and professional specialty occupations	1 007 070	599 746	407 324	523 409	365 735	49 361	27 058	37 228	16 680	31.2	71.3	73.6	18.6	14.4	12.1	7.7
Executive, administrative, and managerial occupations	302 232	257 906	134 326	233 413	123 996	15 510	6 330	11 920	4 414	32.8	87.2	87.4	32.5	29.9	24.6	20.5
Financial managers	149 870	101 269	48 601	93 144	44 430	5 520	2 892	3 596	1 512	36.8	86.0	85.2	31.5	24.2	11.9	8.2
Managers, marketing, advertising, and public relations	38	38	—	32	—	6	—	—	—	48.2	—	—	34.2	—	15.8	—
Administrators, education and related fields	1 732	1 147	585	1 081	540	20	26	44	7	38.0	96.8	97.1	64.1	27.7	0.5	3.1
Managers, medicine and health	3 148	2 237	911	2 184	857	20	19	53	50	35.3	95.8	97.0	43.6	38.2	6.1	4.2
Other specified managers	209	123	86	2 106	74	8	—	11	—	33.8	90.2	100.0	48.0	48.8	10.6	—
Managers and administrators, n.e.c.	2 895	1 916	979	1 746	877	108	72	95	24	—	—	—	—	—	—	—
Salaried	125 853	86 317	39 536	79 271	36 117	4 929	2 443	3 046	1 225	36.4	84.3	81.2	33.5	25.6	9.0	6.8
Self-employed	111 035	75 550	35 485	69 257	32 285	4 402	2 318	2 636	1 143	37.0	84.9	83.6	29.5	23.2	12.1	8.7
Management related occupations	14 818	10 767	4 051	10 014	3 832	527	125	410	82	44.3	79.0	81.6	21.6	15.6	97.1	85.1
Accountants and auditors	15 995	9 491	6 504	8 724	5 965	429	332	347	206	35.5	92.4	92.7	42.0	27.2	13.1	6.3
Personnel, training, and labor relations specialists	5 434	2 772	2 662	2 458	2 421	170	128	112	80	34.5	98.6	96.5	61.2	27.0	3.6	1.2
Buyers and purchasing agents	2 564	1 605	959	1 448	818	103	76	68	74	34.3	85.2	89.5	28.4	20.1	4.7	5.2
Inspectors and compliance officers	1 350	916	414	861	386	18	20	37	25	39.6	92.7	90.3	32.8	24.2	3.9	2.2
Other management related occupations	186	131	55	114	26	7	23	—	—	44.0	83.2	72.7	19.8	47.3	—	—
Professional specialty occupations	6 481	4 067	2 414	3 843	2 314	131	85	130	27	36.1	91.4	90.7	37.1	30.1	25.5	13.2
Engineers, architects, and surveyors	242 362	156 637	85 725	140 269	79 566	9 990	3 438	8 324	2 902	31.2	87.9	88.6	33.1	33.1	32.8	27.6
Architects	2 908	2 768	140	2 630	130	66	—	125	10	32.3	95.4	90.7	32.4	38.6	11.7	22.9
Engineers	2 164	136	28	1 233	18	7	—	4	—	35.4	85.3	100.0	57.4	89.3	7.4	—
Civil engineers	2 719	2 613	106	2 488	106	59	—	121	—	32.1	96.2	87.7	31.3	27.4	12.1	30.2
Electrical and electronic engineers	1 299	1 295	4	1 088	4	—	—	21	—	34.3	98.6	100.0	50.4	100.0	—	—
Industrial engineers	1 562	1 513	49	1 452	49	54	—	70	—	30.4	98.6	89.8	24.2	—	16.2	14.3
Mechanical engineers	166	156	10	145	10	—	—	11	—	31.8	97.4	100.0	45.5	100.0	2.6	—
Other engineers	261	261	10	243	10	5	—	7	—	48.9	83.9	—	34.5	—	8.4	—
Surveyors and mapping scientists	401	558	43	540	43	—	—	12	—	34.3	98.0	81.4	41.0	34.9	7.9	58.1
Computer systems analysts and scientists	25	19	6	19	6	—	—	—	—	50.0	63.2	100.0	—	—	—	—
Operations and systems researchers and analysts	295	216	79	149	79	54	—	13	—	36.4	100.0	100.0	60.6	60.8	—	10.1
Mathematical scientists	175	122	53	116	53	—	—	6	—	33.4	100.0	100.0	60.7	77.4	—	—
Natural scientists	67	36	31	28	24	—	—	—	—	37.5	83.3	100.0	38.9	22.6	22.2	—
Chemists, except biochemists	537	390	147	385	140	5	—	11	14	33.1	91.8	85.7	54.4	49.7	—	10.9
Other natural scientists	55	44	11	44	11	—	—	5	—	33.4	100.0	100.0	52.3	100.0	—	—
Health diagnosing occupations	482	346	136	341	129	5	—	6	14	33.1	99.8	84.6	54.6	45.6	—	11.8
Health assessment and treating occupations	673	580	93	537	72	25	—	15	7	35.5	97.6	100.0	72.4	58.1	47.1	15.1
Registered nurses	1 204	309	895	289	819	8	—	17	17	32.3	80.9	92.2	31.7	39.6	19.4	3.8
Other health assessment and treating occupations	546	88	458	88	458	—	—	11	—	29.1	77.3	98.7	44.3	31.0	8.0	3.1
Teachers, except postsecondary	658	221	437	201	361	8	—	6	17	33.7	82.4	85.4	26.7	48.5	24.0	4.6
Social scientists and urban planners	51 814	20 435	31 379	18 819	30 156	561	595	884	756	30.4	91.1	86.8	31.0	23.6	23.9	34.5
Social and recreation workers	821	512	309	469	292	22	17	12	12	34.0	94.1	93.5	62.9	31.4	10.2	11.0
Lawyers and judges	5 775	2 543	3 232	1 383	2 431	986	617	189	270	27.3	77.2	85.7	26.5	31.4	2.8	0.6
Writers, artists, entertainers, and athletes	554	377	177	377	165	—	12	6	—	34.0	100.0	95.5	93.4	72.9	9.0	2.8
Other professional specialty occupations	175 377	127 078	48 299	114 000	44 413	8 158	2 068	6 962	1 792	31.3	87.3	89.7	32.8	38.5	35.8	26.1
Technical, sales, and administrative support occupations	2 162	1 271	891	1 087	472	105	74	76	29	35.2	89.9	91.4	52.8	55.3	9.9	2.1
Technicians and related support occupations	183 486	53 617	129 869	48 420	118 290	3 143	7 173	2 677	5 539	30.6	75.3	74.7	17.7	8.9	4.4	1.4
Health technicians and technicians	8 950	7 330	1 620	6 727	1 453	320	104	315	48	30.5	89.9	85.6	23.3	31.6	10.7	5.6
Licensed practical nurses	327	150	177	150	155	—	—	5	—	31.3	72.7	64.4	26.7	13.6	11.3	2.8
Other health technicians and technicians	102	40	62	40	56	—	2	—	—	30.9	85.0	54.8	27.5	—	40.0	8.1
Engineering and science technicians	225	110	115	110	99	—	16	5	4	31.7	68.2	69.6	26.4	20.9	0.9	—
Electrical and electronic technicians	3 883	3 369	514	3 116	463	154	37	143	19	30.3	88.9	82.9	20.5	27.8	10.2	10.3
Industrial and mechanical engineering technicians	2 634	2 382	252	2 202	238	113	—	61	19	29.5	89.0	77.4	17.4	18.3	6.9	15.9
Drafting and surveying technicians	71	59	12	59	12	—	—	—	—	30.9	88.1	100.0	44.1	50.0	—	—
Other engineering and science technicians	385	263	122	235	122	4	—	28	—	33.6	93.6	94.3	22.4	41.0	9.5	—
Technicians, except health, engineering, and science	793	665	128	620	91	37	37	54	—	31.4	86.6	81.3	28.6	32.0	22.9	10.2
Airplane pilots and navigators	4 740	3 811	929	3 461	835	166	49	167	25	30.6	91.5	91.2	25.7	37.1	11.1	3.4
Air traffic controllers and broadcast equipment operators	1 443	1 441	2	1 441	148	52	—	83	—	31.5	100.0	100.0	36.9	—	—	—
Computer programmers	1 757	1 604	153	1 491	148	27	10	—	—	29.5	89.4	100.0	21.4	39.2	16.2	5.2
Other technicians, except health, engineering, and science	283	283	—	283	283	27	87	—	—	31.4	100.0	84.5	45.2	23.5	7.1	—
Computer programmers, health, engineering, and science	2 344	1 783	561	1 608	513	87	39	78	25	31.4	91.4	91.4	25.6	41.9	8.1	4.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Entertainment and recreation services															
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black											
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	79 315	26 903	52 412	24 647	47 601	1 366	2 725	1 301	2 692	30.3	37.4	56.6	4.6	14.9	4.3	1.2
Supervisors and proprietors, sales occupations	2 006	1 963	1 043	1 842	956	78	76	24	34	37.2	37.4	79.5	13.1	18.5	13.6	12.1
Sales representatives, finance and business services	2 404	1 697	907	1 607	836	55	65	24	29	35.2	36.4	80.6	12.2	19.7	10.0	—
Sales representatives, commodities, except retail	407	266	136	235	120	23	11	5	5	44.6	41.9	73.3	19.1	10.9	8.7	92.6
Sales workers, retail and personal services	12 089	4 182	7 907	3 883	7 284	137	304	225	420	29.3	25	35.9	5.0	29.1	—	1.2
Cashiers	64 141	20 704	43 437	18 848	39 344	1 151	2 345	1 045	2 238	30.0	—	100.0	—	—	—	—
Other sales occupations, retail and personal services	49 154	14 149	35 005	12 814	31 444	831	2 032	826	1 915	29.7	25	67.3	4.3	11.6	2.4	1.0
Other sales occupations, except household	14 987	6 555	8 432	6 054	7 900	320	313	219	323	27.5	26.6	65.7	7.3	10.5	5.2	0.7
Sales related occupations	65	40	25	40	17	—	—	—	—	29.4	30.8	85.0	—	60.0	40.0	—
Administrative support occupations, including clerical	95 221	19 384	75 837	17 046	69 236	1 457	4 344	1 061	2 799	31.0	33.9	77.7	11.4	19.6	2.2	1.4
Supervisors, administrative support occupations	4 757	2 210	2 547	1 984	2 334	125	128	142	72	37.2	37.2	87.0	18.8	29.2	1.6	1.8
Computer equipment operators	1 214	503	711	446	630	49	48	21	31	32.6	30.1	88.7	13.1	19.9	1.2	0.8
Secretaries, stenographers, and typists	29 179	909	28 270	795	23 647	83	131	31	109	37.5	33.7	85.0	10.9	20.0	1.3	0.8
Stenographers and typists	26 103	719	25 384	647	23 642	50	131	937	43.8	33.7	86.0	92.9	11.4	8.0	1.3	—
Receptionists	3 076	190	2 886	148	2 247	33	434	24	172	25	—	88.6	6.8	14.7	—	1.1
Other information clerks	8 112	792	7 320	678	6 745	80	420	33	200	25	26.4	75.0	80.4	13.6	0.9	0.1
File clerks	2 050	604	1 444	535	1 330	31	59	42	57	27.6	28.0	74.9	9.7	17.2	6.1	2.0
Other records processing occupations, except financial	1 599	149	1 450	125	354	24	48	56	56	27.0	34.4	81.2	71.3	34.9	—	1.8
Bookkeepers, accounting, and auditing clerks	1 319	540	779	487	642	34	111	25	44	34.9	31.3	82.0	20.2	26.0	2.2	—
Payroll and timekeeping clerks	16 303	1 614	14 689	1 421	13 849	41	445	79	432	38.4	39.5	86.6	91.0	26.0	3.9	2.9
Other financial records processing occupations	1 074	284	790	268	521	8	4	21	45	32.9	32.2	78.2	14.1	14.1	7.2	—
Telephone operators	673	128	545	117	519	5	119	9	17	38.8	36.2	92.9	23.0	37.2	3.1	1.1
Mail and message distributing occupations	1 632	1 273	1 439	1 027	910	172	349	109	104	25	34.5	74.1	12.8	37.2	0.6	—
Production coordinators and expeditors	3 058	1 248	1 810	1 129	1 676	42	95	40	75	28.2	30.3	60.6	11.2	39.0	2.2	4.4
Traffic, shipping, and receiving clerks	1 075	834	241	694	186	85	19	123	20	31.8	37.8	86.5	14.9	32.7	0.7	2.0
Stock and inventory clerks	1 540	1 090	450	856	398	213	46	60	20	26.4	27.0	45.1	6.0	4.5	0.7	2.0
Other material recording, scheduling, and distributing clerks	892	540	352	479	29	14	29	16	20	30.5	34.6	69.5	12.6	9.0	3.8	2.7
Adjusters and investigators	1 459	869	590	828	530	35	51	18	56	33.8	33.6	79.5	8.6	22.0	8.6	2.2
Data-entry keyers	1 895	113	1 782	99	565	9	125	4	49	55.1	33.8	80.5	5.4	94.8	—	—
Other administrative support occupations	17 768	5 714	12 054	5 102	10 751	394	964	280	367	29.9	34.1	75.4	12.2	18.3	2.0	1.4
Service occupations	294 731	166 389	128 342	136 371	110 789	20 851	12 230	12 878	5 626	26.0	30.5	52.9	4.4	5.7	2.0	1.2
Private household occupations	20 595	15 830	4 765	13 733	4 431	1 406	247	941	108	30.0	25	63.2	—	7.8	0.2	0.3
Protective service occupations	19 643	14 773	4 866	12 775	4 365	1 55	235	999	108	29.3	25	61.7	4.1	3.9	0.2	0.3
Guards	932	17 433	97	775	85	55	12	12	—	38.9	25	88.4	14.4	12.3	0.2	—
Other protective service occupations	150 559	123 577	26 980	106 568	11 983	19 445	11 983	11 937	5 518	25.6	31.2	51.8	58.9	5.5	2.2	1.3
Service occupations, except protective and household	274 136	142 559	131 577	122 439	104 358	6 036	5 690	4 520	2 376	25.3	30.5	53.8	58.0	5.2	0.8	0.5
Food preparation and service occupations	40 980	42 400	64 380	34 165	56 452	6 036	5 690	4 520	2 376	25.3	30.5	53.8	58.0	5.2	0.8	0.5
Health service occupations	57 371	44 842	12 649	34 165	9 074	8	132	52	52	31.5	39.7	55.8	10.4	2.1	0.1	1.1
Cleaning and building service occupations, except household	108 660	62 777	45 883	34 797	40 358	4 948	3 361	4 037	1 069	42.3	42.1	42.3	1.5	2.4	0.7	0.9
Personal service occupations	43 830	39 704	4 126	32 908	3 615	3 944	283	4 628	2 021	25	25	57.2	7.4	7.9	4.3	2.4
Farming, forestry, and fishing occupations	43 830	39 704	4 126	32 908	3 615	3 944	283	4 628	338	31.2	25	53.9	65.3	6.0	1.8	3.5
Precision production, craft, and repair occupations	43 864	40 669	3 195	36 791	2 787	2 052	242	2 268	218	31.8	30.5	66.9	70.6	6.7	2.7	3.3
Mechanics and repairers	25 102	24 561	541	22 578	462	896	50	1 176	24	28.7	26.5	64.3	9.4	4.4	2.7	8.1
Supervisors, mechanics and repairers	1 697	1 686	11	1 646	11	10	—	35	38.7	25	76.8	54.5	—	9.5	2.5	45.5
Automobile mechanics, including body	1 855	3 808	76	3 652	57	75	5	86	7	29.5	30.5	61.1	10.5	3.8	—	—
Industrial machinery repairers	971	160	811	905	61	40	15	57	—	31.6	30.0	79.9	47.4	14.9	7.1	—
Electric, electronic, communications, and industrial machinery repairers	160	66	94	116	50	22	30	22	—	33.5	—	91.9	—	3.8	—	—
Other precision production, craft, and repair occupations	353	15 583	308	15 583	308	735	22	818	10	28.0	25	63.5	10.5	3.7	2.2	11.0
Mechanics and repairers	70	628	581	9 342	687	687	22	570	50	34.9	25	70.3	80.7	10.2	3.0	2.2
Supervisors, mechanics and repairers	81	90	44	1 018	31	66	4	40	9	42.3	28.3	76.5	17.7	17.7	1.2	—
Automobile mechanics, including body	159	81	242	4 188	229	202	—	264	12	33.4	25	72.9	80.6	11.7	3.5	—
Industrial machinery repairers	51	102	102	1 809	102	96	—	24	—	35.8	25.4	81.4	100.0	11.4	50.0	6.9
Other industrial machinery repairers	305	305	215	1 456	194	191	18	191	29	37.1	26.9	53.8	70.7	5.1	2.0	3.3
Other precision production, craft, and repair occupations	384	384	25	426	25	100	—	30	—	36.6	—	66.9	—	2.8	2.6	—
Other precision production, craft, and repair occupations	—	—	—	—	—	—	—	—	—	31.9	25	53.8	40.0	1.7	8.0	—

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Entertainment and recreation services																	
Race																	
Total			White		Black		Spanish origin ¹			Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extrusive occupations																	
76	76	2 026	61	1 744	15	170	6	—	33.6	—	56.6	—	25.0	—	15.8	—	
5 562	5 562	4 810	454	1 744	454	1 744	516	144	36.2	34.0	72.2	69.3	10.0	12.3	1.9	2.4	
3 937	3 938	2 623	287	47	51	31	159	88.7	35.5	30.0	76.4	81.5	14.0	17.1	1.5	4.8	
24	24	24	66	—	61	—	51	—	36.6	30.6	65.8	88.7	2.5	—	2.1	—	
585	572	487	13	—	43	—	34	—	41.3	—	79.2	100.0	2.6	—	1.7	—	
38	32	27	6	—	15	—	15	—	37.3	30.0	48.8	100.0	6.9	—	—	—	
172	120	102	47	—	18	—	94	—	32.8	33.6	63.3	84.6	1.7	—	—	—	
979	247	732	214	610	29	46	90	94	42.7	48.6	57.1	56.6	2.4	10.1	—	0.7	
667	417	250	315	187	42	57	131	19	34.6	32.6	55.9	48.8	1.7	2.0	—	—	
49	25	24	25	24	—	—	6	—	51.4	37.5	76.0	100.0	—	—	8.0	—	
711	698	641	13	—	29	—	45	—	40.1	50.0	72.5	100.0	6.9	—	1.6	—	
426	391	342	20	—	6	—	34	—	33.5	25	78.5	100.0	12.3	45.7	7.4	—	
Operators, fabricators, and laborers																	
48 977	41 461	7 466	35 506	6 258	3 861	800	2 857	545	30.6	30.6	42.8	62.4	8.5	8.6	3.3	3.1	
22 377	18 630	3 747	15 487	3 132	1 189	325	1 104	344	32.6	32.8	48.1	66.1	10.9	10.4	3.9	4.0	
20 639	17 367	3 272	15 487	2 734	1 123	296	1 033	272	32.8	32.8	47.9	66.0	11.1	10.0	3.7	3.6	
167	113	54	106	28	7	—	7	—	40.4	37.3	61.9	77.8	—	—	—	—	
22	22	—	7	—	8	—	—	—	30.0	—	63.6	—	—	—	—	—	
Metal and plastic processing and woodworking machine operators																	
173	137	36	129	27	8	—	4	—	29.5	35.9	64.2	69.4	16.1	—	—	—	
274	218	56	173	51	32	—	9	12	32.9	30.0	77.5	66.1	12.8	—	6.9	—	
49	47	2	38	—	9	—	17	—	25.5	60.0	51.1	—	—	—	—	—	
176	11	165	11	112	—	26	25	25	27.1	44.0	63.6	61.8	—	10.9	—	3.0	
Textile sewing machine operators																	
493	134	359	90	253	31	78	13	47	25	39.9	32.1	38.7	—	1.7	—	—	
Laundry and dry cleaning machine operators																	
130	120	10	99	10	21	—	—	—	58.4	56.7	40.0	40.0	11.7	—	—	—	
16 408	14 431	1 977	13 128	1 747	756	114	773	137	33.2	32.0	49.5	74.4	17.7	11.5	3.5	5.3	
2 747	2 134	613	1 706	506	251	78	210	45	28.3	29.6	59.3	55.5	8.7	12.1	5.6	1.5	
Miscellaneous and not specified machine operators																	
1 399	1 047	332	915	300	56	24	67	65	31.0	32.4	70.4	71.9	5.7	12.2	6.5	6.3	
429	418	11	393	11	19	—	5	—	33.0	25	71.1	100.0	2.6	34.5	4.1	—	
Welders and cutters																	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
672	427	245	341	200	29	24	56	43	26.6	34.2	64.4	62.0	1.4	2.4	4.2	3.3	
298	202	96	181	89	8	8	6	22	33.1	29.3	81.7	93.8	21.3	32.3	16.3	14.6	
339	216	123	181	98	10	5	4	7	40.9	38.8	73.1	70.7	19.0	16.3	7.9	6.5	
89	52	37	38	37	10	—	4	—	42.4	40.0	59.6	78.4	23.1	—	19.2	21.6	
Other production inspectors, testers, samplers, and weighers																	
250	164	86	143	61	—	5	—	7	39.7	37.0	77.4	67.4	17.7	23.3	4.3	—	
Fabricators, assemblers, and hand working occupations																	
10 502	8 967	1 535	7 165	1 280	1 298	210	596	69	32.5	30.0	61.1	64.0	5.2	3.8	4.3	2.0	
9 007	7 547	1 460	6 072	1 207	1 098	210	421	69	31.9	30.8	62.9	63.0	5.4	3.6	4.6	2.1	
8 550	7 155	1 395	5 724	1 146	1 087	206	396	59	32.3	31.9	63.7	62.7	5.3	3.8	4.2	2.2	
3 171	2 696	475	2 135	380	431	81	147	14	34.9	37.2	61.6	64.8	5.7	1.5	3.7	1.1	
Truck drivers																	
585	300	280	358	48	12	10	16	—	38.9	25	67.7	65.5	5.0	—	19.7	—	
5 021	4 159	862	3 309	718	644	115	233	45	29.2	29.5	63.0	61.3	5.0	5.3	3.4	3.0	
457	392	65	348	61	11	4	25	10	35.9	25	67.9	70.8	7.9	—	11.0	—	
1 495	1 420	75	1 093	73	200	—	175	—	47.0	41.1	51.5	82.7	4.1	6.7	2.6	—	
Material moving equipment operators																	
8	8	8	8	—	—	—	—	—	—	—	100.0	100.0	62.5	—	—	—	
82	75	7	75	7	17	—	10	—	28.9	30.0	48.0	100.0	10.7	—	8.0	—	
113	113	86	86	—	—	—	—	—	28.7	30.0	50.4	—	—	—	—	—	
1 292	1 224	68	924	66	183	—	165	—	38.2	25	51.5	80.9	3.7	7.4	1.8	—	
Other material moving equipment operators																	
16 048	13 864	2 184	11 758	1 846	1 374	265	1 157	132	26.6	25.7	56.8	53.8	7.4	9.1	1.9	2.4	
Handlers, equipment cleaners, helpers, and laborers																	
121	103	18	88	18	—	—	14	—	38.8	40.7	85.4	61.1	21.4	27.8	15.5	—	
552	499	53	411	22	22	31	88	4	25	30.4	37.9	54.7	1.6	9.4	—	—	
713	658	55	521	55	95	—	93	—	31.4	25	66.1	65.5	10.2	—	—	—	
5 663	5 189	474	4 708	437	301	32	259	34	29.7	25	74.0	75.9	11.6	28.3	2.9	0.8	
Garage and service station occupations, and equipment cleaners																	
469	425	44	379	44	17	—	19	—	25	25	37.2	50.0	2.4	—	—	—	
298	148	150	106	38	38	11	23	22	25	37.5	37.2	42.7	—	2.0	—	6.0	
8 232	6 842	1 390	5 545	1 144	898	191	661	72	25	25.8	45.4	47.1	4.7	3.7	1.5	2.8	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Employed persons 16 years and over																		
	Race						Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total			White			Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
19 811 819	6 667 007	13 144 812	5 745 175	10 974 426	617 823	1 682 576	289 000	533 413	37.5	35.8	87.9	86.7	58.3	32.0	10.3	1.9		
9 861 509	4 282 124	5 579 385	3 892 245	4 854 113	228 143	538 475	124 284	154 801	39.1	35.8	97.6	96.8	82.3	64.1	15.3	3.2		
1 560 060	882 770	677 290	804 357	592 912	53 295	63 564	25 184	21 208	46.3	35.7	92.7	93.6	72.0	41.4	9.6	3.6		
24 448	15 859	8 589	14 859	8 014	464	441	26	202	41.2	35.4	96.2	95.7	72.4	31.4	3.2	3.6		
8 956	5 839	3 117	5 627	2 952	88	179	446	61	38.4	39.8	99.2	96.3	79.1	27.9	2.4	0.9		
Managers, marketing, advertising, and public relations	371 677	230 567	141 110	206 779	118 825	19 339	159	159	40.4	41.4	96.7	95.2	62.3	41.9	3.6	2.4		
Administrators, education and related fields	106 256	52 246	54 010	77 255	47 081	3 727	5 876	4 420	44.4	41.4	96.7	95.7	88.3	65.5	0.5	2.6		
Managers, medicine and health	36 009	20 399	15 610	18 110	13 426	1 845	1 584	1 614	40.8	39.0	94.4	94.8	64.6	38.0	3.1	2.6		
Other specified managers	572 449	279 721	293 721	251 102	261 828	17 475	9 106	9 129	41.6	40.5	93.6	91.0	59.6	37.5	1.6	1.1		
Managers and administrators, n.e.c.	552 349	269 106	283 243	243 007	251 504	17 167	8 809	8 783	42.2	40.3	93.6	91.1	59.6	37.5	2.9	2.6		
Salaried	20 100	8 615	11 485	10 324	10 324	308	297	346	45.2	44.7	92.7	86.7	59.7	34.1	—	—		
Self-employed	439 699	279 726	159 973	260 624	140 751	10 308	7 602	5 297	36.0	34.4	97.6	96.2	74.2	40.7	26.1	7.0		
Management related occupations	305 197	211 484	93 713	200 377	85 060	4 602	4 343	2 487	34.8	33.4	99.0	97.5	81.1	44.9	32.8	10.6		
Accountants and auditors	50 153	30 024	20 129	16 287	23 844	2 895	1 132	1 491	35.2	35.2	92.9	93.5	55.3	39.5	1.2	1.9		
Personnel, training, and labor relations specialists	21 269	10 436	10 833	9 393	9 818	714	777	409	39.7	39.7	94.7	93.5	31.0	14.0	0.5	0.7		
Buyers and purchasing agents	14 101	11 183	2 918	9 911	2 274	848	393	157	41.8	34.9	90.5	88.7	39.0	34.8	0.8	0.2		
Inspectors and compliance officers	48 977	26 389	22 390	24 656	19 755	1 249	1 872	847	39.5	35.6	94.2	96.6	12.1	38.0	12.1	4.2		
Other management related occupations	8 301 449	3 399 354	4 902 095	3 087 532	4 261 200	174 848	99 100	133 593	38.6	35.3	98.0	97.2	84.9	67.2	16.7	3.1		
Professional specialty occupations	268 476	126 159	142 317	234 388	111 141	5 189	7 122	498	39.1	31.3	98.0	98.1	72.3	40.7	15.6	10.2		
Engineers, architects, and surveyors	179 892	172 810	7 082	155 999	6 170	3 680	2 287	193	38.7	31.3	99.3	99.6	85.4	86.2	29.1	18.3		
Architects	18 702	17 311	1 391	16 256	1 275	371	382	271	39.8	31.5	98.5	97.4	73.0	48.5	10.1	4.8		
Engineers	48 702	47 211	1 491	42 256	1 275	51	1 237	51	37.8	30.4	98.9	96.2	60.0	68.5	6.0	3.0		
Civil engineers	25 532	24 744	788	22 696	713	585	37 560	16	39.3	29.2	98.5	96.6	66.1	50.8	7.9	3.5		
Electrical and electronic engineers	5 363	4 577	786	4 219	683	195	103	50	40.6	32.9	96.3	97.7	55.5	36.8	13.2	0.8		
Industrial engineers	16 948	16 552	396	15 029	326	491	50 458	15	44.9	30.0	95.5	92.2	70.4	63.1	13.2	5.6		
Mechanical engineers	83 347	79 726	3 621	71 799	3 173	1 438	1 907	139	40.7	32.2	90.9	98.5	74.2	64.2	20.5	8.1		
Other engineers	19 197	18 631	566	18 030	531	305	17	34	33.5	29.6	90.0	94.9	19.5	41.5	—	—		
Surveyors and mapping scientists	15 241	10 917	4 324	10 066	3 793	332	319	379	33.6	31.6	98.8	98.1	67.9	61.3	2.0	0.9		
Computer systems analysts and scientists	6 678	4 318	2 360	3 942	1 779	201	246	129	37.7	34.1	97.9	95.6	72.3	51.5	2.2	0.3		
Operations and systems researchers and analysts	8 805	5 098	3 707	4 719	3 310	122	138	120	35.9	32.9	99.0	98.7	85.7	57.5	5.2	1.1		
Mathematical scientists	72 530	51 441	21 089	46 142	18 184	1 547	87	83	34.9	32.4	98.8	98.0	88.6	75.2	7.1	2.6		
Natural scientists	61 020	43 105	17 915	39 147	15 384	1 220	235	152	36.2	32.9	98.8	98.9	88.2	88.6	2.8	2.8		
Chemists, except biochemists	594 360	526 519	67 841	474 630	51 300	13 042	879	568	36.2	34.7	97.6	96.6	88.7	73.9	8.0	2.8		
Other natural scientists	1 490 143	131 940	1 358 203	110 639	1 191 669	13 579	18 151	29 945	32.0	34.0	96.6	96.6	97.2	83.1	3.4	1.2		
Health diagnosing occupations	1 194 941	48 006	1 146 935	40 231	1 012 173	4 985	6 321	29 579	32.4	35.3	97.3	98.1	32.4	37.1	2.4	0.9		
Health assessment and treating occupations	295 202	83 934	211 268	70 408	179 496	8 594	2 428	23 319	32.4	35.3	97.3	98.1	47.7	33.3	2.4	0.9		
Registered nurses	3 523 197	1 010 239	2 512 958	915 454	2 179 072	71 038	3 893	6 260	31.8	31.6	95.3	91.8	58.8	57.6	3.9	2.9		
Other health assessment and treating occupations	95 408	50 931	44 477	47 430	39 641	2 200	28 291	70 023	36.5	35.8	98.1	97.5	88.9	82.2	1.3	2.3		
Teachers, except postsecondary	305 981	98 423	207 558	76 671	162 328	15 989	4 116	1 080	33.7	35.5	98.9	97.6	90.9	85.0	13.9	15.6		
Social scientists and urban planners	385 898	340 965	44 933	331 495	41 819	5 698	6 936	337	34.4	34.4	94.8	93.9	67.8	60.9	55.9	1.7		
Lawyers and judges	244 132	128 640	115 492	118 203	109 204	5 355	4 919	1 208	38.7	31.9	99.7	98.4	92.3	84.8	25.9	23.7		
Writers, artists, entertainers, and athletes	1 290 400	784 144	506 256	713 753	447 960	40 556	4 103	2 572	41.2	37.4	96.9	96.9	55.6	55.2	32.9	32.3		
Other professional specialty occupations	5 010 006	746 657	4 263 349	615 252	3 648 023	78 730	19 493	14 304	30.3	34.2	91.2	91.6	82.0	73.9	6.3	1.0		
Technical, sales, and administrative support occupations	1 271 881	372 921	898 960	318 248	744 453	28 432	43 646	190 570	30.6	32.4	94.7	93.0	33.8	11.9	2.4	0.7		
Technicians and related support occupations	898 482	132 905	765 577	104 398	630 188	17 665	18 700	29 087	31.6	32.9	94.2	92.5	40.1	20.7	2.1	0.7		
Health technologists and technicians	397 802	12 567	385 235	9 335	306 098	2 547	8 556	12 698	33.5	35.1	94.0	90.6	35.8	16.3	0.9	0.6		
Licensed practical nurses	500 680	120 338	380 342	95 063	324 090	15 118	6 156	12 128	31.5	31.1	94.7	94.4	10.2	2.9	1.0	1.0		
Other health technologists and technicians	193 448	144 954	48 494	129 740	42 407	6 779	7 941	12 128	26.7	26.7	93.6	94.9	38.5	29.9	0.9	0.3		
Engineering and science technicians	15 610	13 419	2 191	12 106	1 683	644	6 816	1 974	30.0	31.1	93.6	94.9	25.7	31.7	2.9	1.0		
Electrical and electronic technicians	2 093	1 720	373	1 560	357	92	582	209	32.9	29.8	93.7	91.2	17.2	17.4	1.2	1.2		
Industrial and mechanical engineering technicians	101 431	86 657	14 774	78 049	13 242	3 525	30	30	41.0	32.9	67.8	91.7	25.7	19.6	17.9	1.9		
Drafting and surveying technicians	74 334	43 158	31 176	38 025	26 765	2 518	4 682	715	30.1	27.8	93.3	93.3	21.7	29.1	3.9	2.8		
Other engineering and science technicians	179 931	97 062	82 869	84 110	72 218	3 988	1 522	1 130	28.2	25.8	95.1	95.4	37.2	34.1	0.8	0.3		
Technicians, except health, engineering, and science	610	550	60	6	58	6	3 328	2 287	30.0	30.3	96.9	96.8	67.3	54.8	2.5	—		
Airplane pilots and navigators	2 739	1 931	808	1 734	711	177	—	—	36.2	33.5	96.7	100.0	38.9	66.7	9.1	—		
Air traffic controllers and broadcast equipment operators	35 352	23 225	12 127	21 101	10 481	725	83	18	25.3	25.3	97.5	94.2	19.0	12.7	1.6	—		
Computer programmers	141 210	71 356	69 854	60 738	60 974	3 080	2 513	1 859	28.3	29.0	92.8	97.2	49.8	46.2	0.5	0.9		
Other technicians, except health, engineering, and science									30.5	30.5	96.8	96.8	74.6	56.8	3.1	—		

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Professional and related services, total									
	Total					Race					Spanish origin ¹					Median age				
						Black														
	Both sexes					White					Male					Male				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Male	Female	Male	Female	Male
Employed persons 16 years and over—Con.																				
Technical, sales, and administrative support occupations—Con.																				
Sales occupations	117 991	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134	326 134
Supervisors and proprietors, sales occupations	6 988	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736	3 736
Salaries	501	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287
Self-employed	9 186	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881	6 881
Sales representatives, finance and business services	98 902	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751	22 751
Sales representatives, commodities, except retail	59 155	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003	5 003
Sales workers, retail and personal services	39 747	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748	17 748
Cashiers	1 638	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972	972
Other sales occupations, retail and personal services	3 620	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134
Sales related occupations	114 069	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478	32 478
Administrative support occupations, including clerical	1 400	752	752	752	752	752	752	752	752	752	752	752	752	752	752	752	752	752	752	752
Supervisors, administrative support occupations	1 394	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746
Administrative support occupations, except clerical	204	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643
Secretaries, stenographers, and typists	273	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122
Stenographers and typists	32	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853
Other information clerks	58	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291
File clerks	210	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167
Other record processing occupations, except financial	277	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603
Bookkeepers, accounting, and auditing clerks	19	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675
Payroll and timekeeping clerks	34	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402
Other financial records processing occupations	48	656	656	656	656	656	656	656	656	656	656	656	656	656	656	656	656	656	656	656
Telephone operators	42	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542
Mail and message distributing occupations	16	043	043	043	043	043	043	043	043	043	043	043	043	043	043	043	043	043	043	043
Production coordinators and expeditors	10	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228
Traffic, shipping, and receiving clerks	55	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638
Stock and inventory clerks	10	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917
Other material recording, scheduling, and distributing clerks	33	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573	573
Adapters and investigators	43	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524
Date-entry keyers	483	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611
Other administrative support occupations	4 076	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219
Service occupations	104	546	546	546	546	546	546	546	546	546	546	546	546	546	546	546	546	546	546	546
Private household occupations	98	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439
Protective service occupations	5	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934
Guards	3	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971
Other protective service occupations	2	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
Service occupations, except protective and household	783	041	041	041	041	041	041	041	041	041	041	041	041	041	041	041	041	041	041	041
Food preparation and service occupations	188	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Health service occupations	118	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354
Cleaning and building service occupations, except household	101	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439	439
Personal service occupations	558	817	817	817	817	817	817	817	817	817	817	817	817	817	817	817	817	817	817	817
Farming, forestry, and fishing occupations	54	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223	223
Precision production, craft, and repair occupations	331	522	522	522	522	522	522	522	522	522	522	522	522	522	522	522	522	522	522	522
Mechanics and repairers	83	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
Supervisors, mechanics and repairers	5	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902
Automotive mechanics, including body	10	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
Industrial machinery repairers	14	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073
Electronic repairers, communications and industrial equipment	8	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556
Heating, air conditioning, and refrigeration mechanics	9	495	495	495	495	495	495	495	495	495	495	495	495	495	495	495	495	495	495	495
Other mechanics and repairers	35	697	697	697	697	697	697	697	697	697	697	697	697	697	697	697	697	697	697	697
Construction trades	116	846	846	846	846	846	846	846	846	846	846	846	846	846	846	846	846	846	846	846
Supervisors, construction occupations	11	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581
Carpenters	32	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509
Electricians	28	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940
Painters, construction and maintenance	22	349	349	349	349	349	349	349	349	349	349	349	349	349	349	349	349	349	349	349
Plumbers, pipefitters, and steamfitters	17	965	965	965	965	965	965	965	965	965	965	965	965	965	965	965	965	965	965	965
Other construction trades	8	482	482	482	482	482	482	482	482	482	482	482	482	482	482	482	482	482	482	482

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States																
Professional and related services, total																
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.																
Extraction occupations	388	331	57	310	45	21	12	—	32.3	35.3	69.2	89.5	22.7	31.6	4.2	3.5
Precision production occupations	130 458	88 699	41 759	76 179	34 907	7 776	4 889	4 935	2 189	40.7	37.5	78.5	75.5	13.2	8.4	2.0
Supervisors, production occupations	29 586	17 872	11 714	15 357	9 218	1 954	2 052	4 935	2 189	42.5	40.0	81.4	79.6	24.5	0.6	0.7
Precision metalworking occupations	8 657	604	8	7 752	458	568	109	364	16	41.9	40.2	76.5	78.6	5.6	1.0	1.8
Food and die makers	369	335	8	335	8	10	—	8	—	35.5	33.0	77.0	100.0	8.6	0.9	—
Mechanists	5 289	4 965	324	4 491	240	297	60	156	—	42.9	39.4	77.5	78.1	5.3	0.9	—
Sheet metal workers	1 434	1 420	14	1 252	7	106	—	124	16	44.6	25.0	74.9	100.0	3.2	0.4	—
Other precision metal workers	2 169	1 911	258	1 674	203	155	49	76	—	37.9	31.7	75.1	77.5	7.5	2.0	4.3
Precision textile, apparel, and furnishings machine workers	4 311	2 895	1 416	2 696	673	161	505	85	379	48.1	50.5	47.7	53.6	4.6	3.9	1.9
Precision food production occupations	10 281	2 618	7 663	2 019	6 384	513	1 048	193	275	45.2	49.2	62.1	57.1	5.1	0.9	0.1
Precision inspectors, testers, and related workers	25 436	24 914	522	21 167	427	2 796	31	43	4	42.5	38.0	85.7	85.9	13.1	38.9	2.0
Plant and system operators	50 798	33 107	17 691	28 630	15 601	1 753	1 071	2 716	997	34.9	37.0	74.5	69.2	10.8	0.6	—
Other precision production occupations																
Operators, fabricators, and laborers	478 340	244 319	234 021	191 181	151 634	41 827	34 650	15 917	10 124	34.9	39.0	60.2	61.2	5.7	0.9	0.5
Machine operators, assemblers, and inspectors	167 450	77 215	90 235	61 660	49 547	11 374	16 293	5 698	5 803	32.9	39.6	65.1	51.7	7.0	0.6	0.4
Machine operators and tenders, except precision	137 331	58 478	78 853	45 993	60 259	9 525	14 623	4 340	5 149	33.5	41.3	66.0	51.4	6.8	0.8	0.4
Metalworking and plastic working machine operators	1 441	1 248	193	1 025	320	177	69	104	31	35.0	32.3	62.4	70.2	7.4	0.5	1.7
Radioforming machine operators, n.e.c.	1 158	116	42	1 032	42	6	—	9	—	35.6	25—	67.2	59.5	6.9	—	—
Metal and plastic processing and woodworking machine operators	2 003	1 297	706	1 107	554	113	113	103	34	31.5	33.1	65.2	60.8	9.0	1.4	4.4
Printing machine operators	16 809	10 063	6 746	8 170	5 993	1 290	558	785	192	30.5	31.7	82.3	84.5	9.6	0.7	0.1
Textile machine operators	401	141	260	104	166	25	105	10	21	38.0	30.2	75.9	62.3	11.3	7.3	0.4
Textile sewing machine operators	4 440	143	4 297	125	3 369	13	667	15	235	34.3	35.6	74.1	46.8	13.3	—	—
Laundry and dry cleaning machine operators	55 436	11 150	44 286	7 258	33 065	2 777	8 780	1 471	3 316	34.2	45.5	47.6	38.3	2.7	0.2	0.1
Packaging and filling machine operators	12 518	655	230	10 488	339	56	46	—	41	26.0	32.5	52.2	66.4	7.4	3.0	—
Furnace, kiln, and oven operators, except food	18 692	9 832	8 860	7 821	6 715	1 524	239	324	—	45.4	41.1	62.1	60.1	2.7	0.1	—
Other specified machine operators	24 558	12 013	12 545	9 227	6 715	1 324	1 739	785	547	29.0	31.6	74.5	68.0	9.8	0.7	0.7
Miscellaneous and not specified machine operators																
Fabricators, assemblers, and hand working occupations	22 437	14 072	8 365	11 991	6 665	1 421	1 281	1 165	454	31.0	30.4	57.9	49.3	5.1	1.7	1.1
Welders and cutters	6 163	5 889	274	4 911	174	622	80	647	21	33.1	26.2	63.8	58.0	2.5	1.5	1.5
Solders and brazers	214	81	133	66	83	15	25	6	6	25—	38.7	71.6	30.8	12.3	—	—
Assemblers	14 676	7 318	7 358	6 335	5 920	706	1 072	448	411	29.4	30.4	52.4	48.8	6.7	1.4	0.6
Hand working occupations	1 384	784	600	679	488	78	104	64	16	32.3	32.2	63.5	56.0	8.3	0.1	—
Production inspectors, testers, samplers, and weighers	7 882	4 665	3 217	4 076	2 623	428	389	193	200	32.4	32.6	75.6	63.6	15.3	0.5	0.4
Graders and sorters, except agricultural	4 023	1 904	2 119	1 075	1 755	196	227	93	132	25—	31.5	60.6	57.0	10.3	—	—
Other production inspectors, testers, samplers, and weighers																
Fabricators, assemblers, and hand working occupations	22 437	14 072	8 365	11 991	6 665	1 421	1 281	1 165	454	31.0	30.4	57.9	49.3	5.1	1.7	1.1
Welders and cutters	6 163	5 889	274	4 911	174	622	80	647	21	33.1	26.2	63.8	58.0	2.5	1.5	1.5
Solders and brazers	214	81	133	66	83	15	25	6	6	25—	38.7	71.6	30.8	12.3	—	—
Assemblers	14 676	7 318	7 358	6 335	5 920	706	1 072	448	411	29.4	30.4	52.4	48.8	6.7	1.4	0.6
Hand working occupations	1 384	784	600	679	488	78	104	64	16	32.3	32.2	63.5	56.0	8.3	0.1	—
Production inspectors, testers, samplers, and weighers	7 882	4 665	3 217	4 076	2 623	428	389	193	200	32.4	32.6	75.6	63.6	15.3	0.5	0.4
Graders and sorters, except agricultural	4 023	1 904	2 119	1 075	1 755	196	227	93	132	25—	31.5	60.6	57.0	10.3	—	—
Other production inspectors, testers, samplers, and weighers																
Transportation and material moving occupations	236 027	113 584	122 443	88 152	106 305	21 327	14 047	6 100	3 070	42.9	39.3	57.7	69.2	4.7	0.6	0.6
Transportation occupations	229 456	107 756	121 700	83 576	105 745	20 319	13 891	5 725	3 044	43.3	39.3	57.3	69.2	4.6	1.1	0.6
Motor vehicle operators	228 675	107 121	121 554	83 019	105 615	20 267	13 875	5 707	3 039	43.4	39.4	57.3	69.2	4.6	1.1	0.6
Truck drivers	33 449	26 728	6 721	19 776	5 096	5 713	1 394	1 799	288	35.9	35.4	61.1	70.7	4.1	0.5	1.0
Driver-sales workers	1 561	1 067	514	834	406	183	108	50	15	32.4	41.6	67.0	73.3	5.4	0.7	0.4
Other motor vehicle operators	193 645	79 326	114 319	62 409	100 113	14 371	12 373	3 858	2 736	45.8	39.5	55.8	69.1	4.7	1.3	0.6
Rail and water transportation occupations	781	635	146	557	130	52	16	18	5	37.1	39.5	72.9	74.0	16.4	1.2	—
Material moving occupations	6 571	5 828	743	4 576	560	1 008	156	375	26	36.9	34.6	63.4	66.9	6.3	1.1	—
Supervisors, material moving equipment operators	473	388	85	352	68	36	17	8	—	49.4	41.6	87.4	84.7	19.3	1.7	—
Crane, hoist and winch operators	426	408	18	329	18	48	—	26	—	41.6	30.0	52.5	72.2	5.9	—	—
Excavating, grading, and dozer machine operators	479	439	40	372	40	50	—	32	9	35.0	29.6	65.8	95.0	12.5	4.3	—
Other material moving equipment operators	5 193	4 593	600	3 523	434	874	139	309	17	35.8	34.0	62.1	62.3	4.6	0.9	—
Handlers, equipment cleaners, helpers, and laborers	74 663	53 520	21 143	41 369	15 782	9 126	4 310	4 119	1 251	28.1	31.9	58.6	55.2	5.7	0.6	0.6
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	1 086	713	373	582	272	126	93	10	8	42.4	41.7	80.5	78.6	23.4	1.7	—
Helpers, craft and production	12 545	9 670	2 875	8 120	2 035	1 009	656	835	209	25—	37.1	67.5	57.7	5.8	0.3	0.3
Construction laborers	4 186	3 922	264	2 904	162	718	94	372	7	31.9	27.9	56.7	65.5	7.6	—	—
Freight, stock, and material handlers	9 702	7 919	1 783	6 111	1 385	1 419	323	506	84	25.4	25.5	62.6	74.7	5.1	0.6	0.7
Garage and service station occupations, and equipment cleaners	3 039	1 836	1 203	1 348	890	365	239	92	70	25.3	28.2	56.5	51.6	4.3	—	0.7
Hand packers and packagers	6 813	3 182	3 631	2 625	2 977	407	428	206	244	28.8	32.7	47.3	47.2	5.9	0.4	0.6
Laborers, except construction	37 292	26 278	11 014	19 679	8 061	5 062	2 477	2 098	629	29.3	31.7	56.0	53.5	5.2	0.9	0.7

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States																	
	Race						Hospitals		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
	Total		White		Black		Spanish origin ¹		Median age		Male		Female		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	4 424 547	1 033 823	3 390 724	783 158	2 650 825	176 100	577 742	72 241	142 612	33.8	34.5	81.7	84.7	36.2	18.4	1.4	0.3	
Managerial and professional specialty occupations	1 589 138	393 552	1 195 586	334 688	1 027 038	27 906	103 715	18 143	29 380	34.5	33.8	97.4	97.2	73.7	38.7	3.4	0.6	
Executive, administrative, and managerial occupations	1 193 092	296 420	896 672	234 252	662 420	19 673	77 041	12 520	23 087	34.5	33.8	95.3	93.6	65.5	32.5	3.4	0.6	
Officials and administrators, public administration	1 148	118	1030	99	1031	12	1030	11	11	34.5	33.8	95.3	93.6	65.5	32.5	3.4	0.6	
Financial managers	7 932	5 148	2 784	4 871	2 557	106	152	153	67	37.4	35.4	92.0	90.2	76.3	38.7	0.1	0.2	
Managers, marketing, advertising, and public relations	586	337	249	334	238	3	11	5	12	35.5	35.4	92.0	90.2	76.3	38.7	0.1	0.2	
Administrators, education and related fields	1 474	707	767	618	645	3	93	21	25	39.8	42.2	97.2	91.9	69.7	49.5	4.2	0.7	
Managers, medicine and health	67 297	32 092	35 205	31 288	27 690	2 946	3 641	1 023	1 023	39.8	42.2	97.2	91.9	69.7	49.5	4.2	0.7	
Other specialized managers	10 919	6 162	4 757	5 326	4 171	697	529	189	107	39.4	39.4	94.1	93.6	66.8	43.0	1.0	0.5	
Managers and administrators, n.e.c.	62 193	30 946	31 247	27 718	26 774	2 272	3 543	1 223	1 020	40.9	40.0	93.5	91.8	54.9	30.3	0.4	0.3	
Self-employed	61 894	30 826	31 068	27 601	26 621	2 272	3 517	1 204	1 002	40.8	39.9	93.5	91.8	54.9	30.7	0.4	0.3	
Management related occupations	42 543	17 910	24 633	15 287	20 943	1 556	2 712	906	833	34.8	35.7	96.4	94.0	60.0	36.9	100.0	51.4	
Accountants and auditors	16 728	8 086	8 642	6 976	7 342	425	762	419	271	33.1	33.1	96.4	94.0	54.3	22.2	0.5	0.2	
Personnel, training, and labor relations specialists	10 441	3 089	7 352	2 396	5 950	614	1 138	166	225	35.6	36.0	91.1	97.7	73.6	28.0	0.2	0.2	
Buyers and purchasing agents	9 753	4 486	5 267	3 997	4 811	316	405	206	137	37.9	39.4	94.0	97.0	48.5	27.3	0.4	0.3	
Inspectors and compliance officers	636	462	174	340	114	101	50	32	137	46.5	35.8	79.0	89.1	29.0	42.5	—	0.1	
Other management related occupations	4 985	1 787	3 198	1 578	2 726	100	357	83	200	40.3	35.8	99.1	94.2	66.3	22.7	3.1	0.5	
Professional specialty occupations	1 396 046	297 132	1 098 914	249 147	849 767	20 233	93 034	14 623	26 293	33.6	33.5	98.1	97.5	78.0	39.2	4.3	0.6	
Engineers, architects, and surveyors	5 568	4 974	594	4 489	502	265	53	188	20	38.7	32.2	93.6	94.8	39.6	41.9	0.9	1.0	
Architects	256	220	36	198	25	11	5	5	5	38.7	32.2	97.3	100.0	70.0	61.1	3.6	1.1	
Engineers	5 300	4 750	550	4 287	469	254	48	183	20	38.1	33.3	93.5	96.5	38.2	37.8	—	—	
Civil engineers	463	454	9	412	4	25	5	22	22	38.1	46.0	94.5	77.8	44.2	39.2	0.8	—	
Electrical and electronic engineers	706	699	7	635	2	45	5	68	12	40.1	25.9	95.3	100.0	33.2	28.6	—	—	
Industrial engineers	876	727	149	635	129	59	12	43	25	43.2	35.9	91.6	100.0	35.9	24.9	—	—	
Mechanical engineers	893	877	16	779	16	52	31	35	8	41.5	40.7	86.8	62.5	18.4	42.5	0.6	—	
Other engineers	2 362	1 993	369	1 846	318	73	31	33	8	37.7	32.2	96.2	97.0	47.6	46.3	1.7	1.6	
Surveyors and mapping scientists	12	4	8	4	8	—	—	—	—	50.0	30.0	100.0	100.0	100.0	100.0	—	—	
Computer systems analysts and scientists	2 053	1 286	767	1 081	696	100	56	32	25	34.4	32.3	96.7	98.4	49.2	45.2	0.5	—	
Operations and systems researchers and analysts	976	548	428	1 468	318	41	93	32	12	34.1	31.5	95.1	96.7	64.1	40.7	—	—	
Mathematical scientists	998	382	616	352	544	5	48	392	304	32.9	32.9	100.0	99.2	74.1	36.9	—	—	
Natural scientists	17 492	9 839	7 653	8 204	6 363	609	533	392	304	38.6	36.0	97.6	99.1	90.7	69.2	1.9	0.5	
Chemists, except biochemists	2 261	1 384	877	996	696	111	48	75	47	38.6	36.0	98.3	99.4	90.2	84.6	—	—	
Other natural scientists	15 231	8 455	6 776	7 208	5 667	498	485	317	257	38.6	33.7	99.2	99.2	90.8	67.2	2.2	0.6	
Health diagnosing occupations	170 421	138 380	32 041	115 245	22 091	4 738	1 992	7 193	1 344	31.7	32.8	99.6	99.2	98.0	90.2	7.8	3.9	
Health assessment and treating occupations	1 106 464	106 389	1 000 075	88 372	866 153	11 384	82 784	5 345	22 534	34.6	33.5	96.4	97.5	51.5	31.7	1.0	0.5	
Registered nurses	918 879	41 739	877 140	34 912	765 144	4 335	67 248	2 189	18 321	31.4	33.8	97.3	98.3	46.8	33.3	1.4	0.5	
Other health assessment and treating occupations	187 585	64 450	122 935	53 464	101 009	7 049	15 536	3 156	4 013	32.1	31.1	95.7	91.5	56.2	50.6	0.7	0.5	
Teachers, except postsecondary	10 775	2 629	8 146	2 245	7 050	254	892	84	134	34.0	35.3	95.1	96.6	70.9	68.5	1.1	1.1	
Social scientists and urban planners	20 332	11 285	9 047	10 025	7 231	935	1 565	399	228	33.6	33.5	98.1	94.1	85.6	70.3	0.7	1.3	
Lawyers and judges	38 423	10 928	27 505	9 161	22 448	1 308	4 058	611	181	38.1	32.4	98.5	97.2	80.5	81.7	0.6	0.3	
Writers, artists, entertainers, and athletes	9 053	3 367	5 686	3 016	5 159	208	286	169	311	34.7	33.7	94.4	93.7	97.5	69.6	2.7	1.3	
Other professional specialty occupations	12 818	6 712	6 106	6 130	5 266	345	618	177	180	43.2	38.7	97.5	94.3	86.2	65.6	2.5	0.5	
Technical, sales, and administrative support occupations	1 422 776	187 622	1 235 154	140 839	1 094 315	31 481	183 578	14 240	52 743	31.4	33.3	90.6	90.5	28.1	10.5	0.3	0.2	
Technicians and related support occupations	654 214	118 818	535 396	90 162	428 950	16 196	85 710	7 455	18 288	31.5	32.8	94.2	92.4	34.7	16.1	0.3	0.3	
Health technologists and technicians	628 748	102 599	526 149	79 492	418 878	15 082	83 957	6 800	17 427	31.5	32.5	94.1	92.4	33.5	15.7	0.3	0.3	
Licensed practical nurses	281 695	10 102	271 593	7 438	209 940	2 089	52 094	4 997	9 437	33.1	34.7	90.4	91.3	9.9	3.0	0.7	0.3	
Other health technologists and technicians	347 053	92 857	254 196	72 054	208 918	12 993	31 863	6 303	8 410	31.1	31.7	94.5	93.5	36.1	29.2	0.3	0.1	
Engineering and science technicians	8 861	5 161	3 700	4 332	2 866	561	633	269	165	32.1	31.7	92.1	89.9	24.7	27.2	0.4	0.1	
Electrical and electronic technicians	2 582	1 941	641	1 702	478	123	119	113	26	31.5	32.6	95.3	88.5	15.9	21.5	0.3	0.3	
Industrial and mechanical engineering technicians	344	201	143	107	129	14	7	8	20	45.8	32.5	68.2	95.1	20.4	19.6	—	—	
Drafting and surveying technicians	837	608	229	499	189	73	37	57	9	30.7	34.4	91.3	89.6	21.4	19.5	1.0	—	
Other engineering and science technicians	5 076	2 411	2 665	1 944	2 070	351	470	91	110	32.3	31.3	91.7	90.0	32.9	29.6	0.3	0.1	
Technicians, except health, engineering, and science	16 605	7 698	8 907	6 338	7 206	553	1 120	386	277	31.2	30.7	96.9	93.3	56.5	38.9	0.1	—	
Airplane pilots and navigators	44	23	21	17	13	6	10	5	10	37.1	40.6	73.9	100.0	—	38.1	—	—	
Air traffic controllers and broadcast equipment operators	227	94	133	77	111	17	22	10	—	30.2	25.9	91.5	90.2	31.9	3.8	—	—	
Computer programmers	4 416	2 742	1 674	2 463	1 461	115	118	119	56	30.5	29.6	98.4	96.5	45.2	34.3	0.2	0.2	
Other technicians, except health, engineering, and science	1 918	4 839	7 079	3 781	5 621	415	980	252	221	31.8	31.1	96.3	92.6	62.4	40.6	0.1	—	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Hospitality												
Race												
Total												
Both sexes												
White												
Black												
Spanish origin ¹												
Median age												
Percent high school graduates												
Percent completed 4 or more years of college												
Percent self-employed												
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations												
20 817	2 669	18 148	1 997	14 659	444	2 682	243	1 057	33.6	83.3	77.9	32.0
962	524	438	460	355	48	78	22	22	35.8	87.0	85.2	26.1
962	524	438	460	355	48	78	22	22	35.8	87.0	85.2	26.1
86	28	58	22	58	6	—	—	—	36.7	92.9	87.9	92.9
14	14	—	—	—	—	—	—	—	32.8	100.0	—	—
19 689	2 071	17 618	1 489	14 218	382	2 598	209	1 035	33.2	82.4	77.7	32.6
16 053	1 065	15 048	614	11 974	228	2 336	150	929	31.3	79.2	78.0	17.3
3 636	1 066	2 570	875	2 244	154	262	59	106	34.8	85.4	75.4	47.0
66	32	34	12	28	8	6	12	—	30.0	62.5	100.0	21.9
747 745	69 135	678 610	48 680	559 144	14 841	95 186	6 542	33 397	31.1	84.9	89.3	16.9
36 998	8 868	28 130	6 805	23 070	1 621	4 160	571	1 350	36.9	88.8	90.4	28.5
14 193	3 687	10 506	2 759	8 723	596	1 348	250	1 029	28.8	96.1	92.4	16.0
251 289	3 449	247 840	2 593	211 508	647	29 058	281	10 129	30.2	90.4	93.7	16.4
204 464	2 122	202 342	1 642	175 308	331	21 781	178	7 479	30.1	90.2	93.9	17.0
46 825	1 327	45 498	951	36 197	316	7 277	103	2 650	30.3	90.6	92.6	15.4
72 881	3 655	69 226	2 510	58 025	787	8 306	526	4 490	29.6	89.4	89.7	23.8
8 482	1 553	6 929	957	5 465	481	1 227	148	358	29.6	82.7	86.7	20.2
18 022	3 054	14 968	1 823	10 867	893	3 344	304	1 104	26.5	85.2	78.6	8.6
43 624	3 365	40 259	2 261	33 416	735	5 256	408	1 960	31.4	86.0	89.9	21.8
31 846	2 521	29 325	1 968	26 049	271	2 165	200	1 096	33.3	92.8	91.7	31.8
18 231	517	17 714	387	15 009	82	546	23	187	34.3	88.2	94.4	15.5
12 101	989	11 112	507	14 792	293	1 632	91	960	30.5	88.4	91.7	32.3
20 405	646	19 759	499	23 086	87	2 286	46	2 286	33.4	89.0	78.8	7.6
10 285	4 200	6 085	2 719	4 323	1 105	1 546	611	313	28.4	70.5	87.9	28.1
3 744	878	2 866	683	2 363	169	747	54	131	33.1	87.7	87.9	10.2
35 217	2 819	32 398	2 153	27 088	506	176	255	166	30.7	79.0	68.6	3.5
4 240	2 819	21 369	6 740	15 812	3 128	4 800	1 250	1 215	30.8	77.1	79.5	13.2
8 785	1 377	7 408	1 197	6 245	204	663	47	216	30.1	93.4	92.8	32.3
12 174	1 700	11 474	466	8 565	159	2 199	57	572	30.1	96.3	91.9	17.9
140 886	12 162	128 724	8 075	98 536	2 956	24 856	1 265	7 656	30.6	86.6	87.1	19.6
1 240 883	331 626	909 257	210 708	586 620	98 468	277 114	31 791	56 191	32.6	64.0	62.3	7.9
30 504	28 136	2 368	21 210	1 486	5 946	818	1 836	124	42.1	72.8	75.0	6.8
27 850	25 575	2 275	19 143	1 409	5 512	808	1 714	118	41.8	71.8	75.0	6.3
2 654	2 561	93	2 067	77	434	10	122	6	44.8	82.2	74.2	11.6
1 210 379	303 490	906 889	189 498	585 134	92 522	276 296	29 955	56 067	38.5	63.2	62.2	8.0
147 404	43 879	103 525	26 538	70 456	13 441	28 441	5 235	5 769	32.1	50.7	49.2	2.7
787 024	138 382	648 642	89 113	424 321	41 473	193 397	10 244	35 194	30.0	76.7	69.6	13.7
257 957	116 276	141 681	70 755	81 402	36 110	50 808	13 946	14 769	37.2	51.5	38.0	2.8
17 994	4 953	13 041	3 092	8 955	1 498	3 650	530	769	33.0	67.7	62.2	12.6
6 461	5 906	555	4 550	466	964	68	556	9	35.1	54.3	73.0	3.7
82 160	73 823	8 337	63 889	5 920	7 172	2 049	3 719	562	43.4	69.4	65.2	4.9
20 893	19 877	1 016	17 339	740	1 634	259	1 095	43	40.0	72.6	76.3	5.1
1 546	1 399	147	1 292	134	104	13	71	—	46.9	67.9	87.8	7.9
834	788	46	612	46	104	—	95	9	40.7	51.9	95.7	3.7
5 927	5 832	95	5 221	69	361	20	337	—	39.8	70.4	61.1	4.3
1 186	984	202	796	151	141	46	49	21	34.5	83.0	83.2	7.2
3 657	3 539	118	3 052	59	371	59	197	—	38.9	76.8	75.2	2.7
7 743	7 335	408	6 366	281	601	121	346	13	39.8	74.0	75.2	6.4
34 212	33 629	583	29 693	378	2 907	165	1 707	33	44.1	65.1	70.3	3.3
3 048	2 910	138	2 755	76	121	54	1 09	8	48.5	71.5	77.5	6.3
8 113	8 022	91	7 345	66	466	25	379	8	46.4	61.0	46.2	2.4
8 301	8 215	86	7 302	55	629	20	357	13	38.8	61.0	46.2	2.4
7 210	7 004	206	5 853	140	885	54	530	4	45.8	52.8	67.0	2.6
5 894	5 888	6	5 212	6	503	—	220	—	42.9	66.9	67.0	2.7
1 646	1 590	56	1 226	35	303	12	112	—	44.0	50.4	78.6	1.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Employed persons 16 years and over—Con.																
Hospitals																
Percent high school graduates																
Percent completed 4 or more years of college																
Percent self-employed																
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¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Health services, except hospitals											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Black						
Employed persons 16 years and over	2 825 918	692 054	2 133 864	607 576	1 829 071	47 930	29 280	84 496	41.4	34.9	89.1	79.4
Managerial and professional specialty occupations	936 575	481 984	454 591	443 511	409 211	14 753	14 531	11 795	38.9	39.9	98.6	95.0
Executive, administrative, and managerial occupations	154 002	51 193	102 809	46 441	93 749	3 037	1 794	3 235	39.8	39.8	94.4	92.7
Officials and administrators, public administration	2 813	1 307	1 506	1 202	1 441	56	57	21	37.5	40.0	98.1	95.2
Financial managers	1 044	643	401	651	367	7	46	7	38.1	38.9	98.5	98.5
Managers, marketing, advertising, and public relations	1 044	458	586	376	627	57	9	21	34.8	35.9	98.3	98.3
Administrators, education and related fields	38 959	17 154	21 805	15 967	19 391	781	362	591	41.0	42.3	95.1	92.0
Managers, medicine and health	3 798	1 291	2 507	1 190	2 108	56	58	138	39.8	40.2	92.6	91.7
Other specified managers	86 982	20 934	66 048	18 881	61 432	1 372	834	1 988	39.5	39.5	93.3	92.7
Managers and administrators, n.e.c.	82 104	19 611	62 493	17 715	58 298	1 259	797	1 891	39.4	39.2	93.8	93.0
Scanned	4 878	1 323	3 555	1 166	3 134	113	77	97	46.4	45.3	85.4	86.4
Self-employed	19 187	9 386	9 803	8 174	8 283	708	428	469	38.5	35.5	95.0	94.0
Management related occupations	2 280	1 098	1 182	1 030	1 152	86	119	128	36.2	36.0	97.9	96.8
Accountants and auditors	4 522	2 344	2 178	2 009	2 152	204	80	168	37.1	36.3	87.0	89.5
Personnel, training, and labor relations specialists	1 193	501	692	472	652	18	30	19	44.8	38.2	93.8	94.0
Buyers and purchasing agents	5 038	4 072	966	3 471	742	374	136	67	39.8	32.3	94.9	94.7
Inspectors and compliance officers	2 272	1 035	1 237	953	1 062	26	63	87	39.1	35.7	98.6	97.2
Other management related occupations	782 573	430 791	351 782	397 070	315 462	11 716	12 737	8 560	44.5	38.7	99.1	95.7
Professional specialty occupations	2 280	1 098	1 182	1 030	1 152	86	119	128	36.2	36.0	97.9	96.8
Engineers, architects, and surveyors	2 124	1 035	1 089	953	1 062	26	63	87	39.1	35.7	98.6	97.2
Architects	300	167	133	117	126	17	7	7	38.9	38.9	99.4	99.4
Engineers	1 67	80	80	70	80	25	22	6	41.2	32.1	100.0	100.0
Civil engineers	266	127	139	117	126	17	7	7	38.9	38.9	99.4	99.4
Electrical and electronic engineers	176	80	96	70	80	25	22	6	41.2	32.1	100.0	100.0
Industrial engineers	176	80	96	70	80	25	22	6	41.2	32.1	100.0	100.0
Mechanical engineers	176	80	96	70	80	25	22	6	41.2	32.1	100.0	100.0
Other engineers	176	80	96	70	80	25	22	6	41.2	32.1	100.0	100.0
Surveyors and mapping scientists	31	21	10	21	10	7	7	6	25	25	100.0	100.0
Computer systems analysts and scientists	382	314	68	291	41	12	3	—	34.8	30.7	100.0	100.0
Operations and systems researchers and analysts	329	178	151	154	141	11	5	—	31.8	34.6	94.9	91.4
Mathematical scientists	610	218	392	212	340	28	6	7	39.2	34.7	96.3	96.3
Natural scientists	7 476	4 776	2 700	4 304	2 346	121	194	60	38.8	38.8	98.3	98.0
Chemists, except biochemists	1 054	821	233	702	210	17	43	60	36.2	33.4	99.3	98.7
Other natural scientists	6 422	3 955	2 467	3 402	2 136	104	151	151	39.4	34.4	98.1	97.9
Health diagnosing occupations	406 742	374 767	31 975	347 115	25 927	7 849	10 604	1 416	45.9	38.5	99.6	98.1
Health assessment and treating occupations	272 779	18 195	254 584	15 794	231 788	1 560	1 744	5 091	33.9	39.7	93.7	95.8
Registered nurses	215 783	5 092	210 691	4 263	193 065	564	190	826	34.8	41.0	96.9	97.2
Other health assessment and treating occupations	56 996	13 103	43 893	11 531	38 723	996	554	1 265	33.5	33.2	92.5	89.1
Teachers, except postsecondary	9 080	7 219	1 861	1 501	6 100	259	56	163	31.3	32.6	94.5	92.1
Social scientists and urban planners	26 905	13 574	13 331	12 808	12 122	490	354	339	36.9	37.0	98.9	98.0
Social and recreation workers	42 456	8 920	33 536	7 634	29 721	990	521	1 174	32.5	33.7	96.9	93.2
Lawyers and judges	1 807	1 510	297	1 427	262	31	69	11	38.7	32.8	100.0	98.0
Writers, artists, entertainers, and athletes	4 255	1 617	2 638	1 495	2 298	58	63	190	37.1	34.1	97.6	93.3
Other professional specialty occupations	7 472	2 963	4 509	2 605	4 004	251	50	103	36.0	38.6	94.5	90.7
Technical, sales, and administrative support occupations	746 221	44 440	701 781	36 837	637 771	4 503	2 969	28 006	32.7	34.3	88.8	91.0
Technicians and related support occupations	252 259	25 262	226 997	21 172	200 968	2 165	1 539	6 433	32.9	33.1	93.3	92.7
Health technologists and technicians	241 669	20 955	220 714	17 384	195 433	1 910	6 253	6 253	33.8	33.1	93.8	92.7
Licensed practical nurses	109 969	2 254	107 715	1 717	91 548	436	1 73	2 957	35.8	36.1	88.0	88.9
Other health technologists and technicians	131 700	18 701	112 999	15 667	103 885	1 474	1 273	3 296	33.0	33.2	94.4	96.3
Engineering and science technicians	4 857	1 887	2 970	1 610	2 434	162	106	99	32.0	30.4	86.4	93.0
Electrical and electronic technicians	367	247	120	219	74	14	36	6	30.4	29.9	85.8	88.3
Industrial and mechanical engineering technicians	105	26	79	26	79	—	—	—	25	25	46.2	79.7
Drafting and surveying technicians	422	215	207	141	186	30	6	19	32.7	32.8	81.4	93.0
Other engineering and science technicians	3 963	1 599	2 364	1 224	2 295	118	74	74	32.4	30.3	88.1	90.1
Technicians, except health, engineering, and science	5 733	2 420	3 313	2 178	2 901	93	87	81	30.5	30.5	94.6	92.9
Airplane pilots and navigators	23	23	—	23	—	—	—	—	34.6	—	100.0	—
Air traffic controllers and broadcast equipment operators	32	21	11	21	11	—	—	—	28.8	—	100.0	—
Computer programmers	1 016	550	466	499	415	19	13	19	30.5	30.9	91.3	92.7
Other technicians, except health, engineering, and science	4 662	1 826	2 836	1 635	2 475	74	74	62	30.5	30.4	95.5	92.9
Persons of Spanish origin may be of any race.												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Health services, except hospitals									
	Employed persons 16 years and over—Con.																			
	Race																			
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.																				
Supervisors and proprietors, sales occupations	6 087	2 619	3 468	2 423	121	264	103	125	35.3	36.1	92.8	85.4	47.9	18.2	7.4	1.9				
Supervisors and proprietors, other occupations	392	362	230	308	34	—	28	11	36.3	37.2	86.2	81.7	21.3	33.5	11.9	4.3				
Sales occupations	539	319	220	271	34	—	22	11	36.1	36.3	87.5	80.9	21.0	30.5	100.0	100.0				
Self-employed	293	143	10	37	—	—	6	—	37.5	37.5	76.7	100.0	23.3	35.7	19.3	16.2				
Sales representatives, finance and business services	279	114	185	114	—	—	7	—	36.0	36.0	93.9	97.3	50.0	—	71.4	—				
Sales representatives, commodities, except retail	5 161	2 120	3 041	1 978	87	264	68	114	36.1	36.1	100.0	—	52.5	16.1	5.8	0.6				
Sales workers, retail and personal services	1 564	1 110	454	1 258	9	112	—	94	35.0	35.0	89.1	83.5	25.5	3.9	—	0.1				
Cashiers	3 597	2 010	1 587	1 888	78	152	68	—	35.1	35.1	100.0	83.3	18.8	27.2	6.1	1.1				
Other sales occupations, retail and personal services	28	16	12	12	—	—	—	—	25	25	—	—	—	—	18.8	50.0				
Administrative support occupations, including clerical	487 875	16 559	471 316	13 242	2 217	22 569	1 327	21 448	31.8	35.2	81.4	90.3	26.8	8.2	1.5	0.6				
Supervisors, administrative support occupations	15 890	1 740	14 150	1 437	223	1 005	113	174	36.9	39.0	86.8	93.1	40.7	12.4	1.3	0.5				
Computer equipment operators	4 341	3 700	641	517	70	280	36	194	36.6	39.0	87.2	93.6	24.3	6.1	0.9	0.2				
Secretaries, stenographers, and typists	186 842	1 325	185 517	1 069	134	5 581	82	7 559	31.3	35.4	81.2	93.1	20.8	7.5	0.6	0.6				
Secretaries	168 032	951	167 081	977	134	5 581	82	7 559	31.3	35.4	81.2	93.1	20.8	7.5	0.6	0.6				
Stenographers and typists	18 810	18 436	374	272	63	1 988	65	1 923	30.4	32.5	71.1	88.8	12.8	5.5	—	0.8				
Receptionists	128 297	992	127 305	878	63	4 469	109	4 360	29.5	34.3	84.1	88.0	19.6	7.0	1.7	0.6				
Other information clerks	2 662	320	2 342	289	37	253	34	199	30.6	35.8	84.1	88.0	34.7	9.9	—	1.0				
File clerks	7 963	578	7 385	446	74	740	57	451	25	25	44.4	69.9	27.0	4.9	—	0.4				
Other records processing occupations, except financial	14 968	560	14 408	408	115	874	38	705	30.8	33.6	79.8	90.4	27.0	8.2	2.0	0.5				
Bookkeepers, accounting, and auditing clerks	52 444	1 954	50 490	1 560	179	1 185	154	1 493	35.8	40.0	89.2	93.5	19.4	12.1	2.9	0.9				
Payroll and timekeeping clerks	1 506	62	1 444	62	—	127	—	—	36.7	36.6	88.7	89.1	29.6	5.3	—	0.3				
Other financial records processing occupations	6 307	354	5 953	313	29	348	12	325	32.0	32.5	98.0	91.1	19.4	9.3	7.3	0.3				
Telephone operators	3 396	224	3 172	159	43	248	26	132	30.0	38.9	93.1	81.8	16.1	3.6	—	0.3				
Mail and message distributing occupations	3 125	1 459	1 666	1 444	161	294	108	66	37.9	28.5	69.3	79.2	9.8	3.0	1.6	2.0				
Production coordinators and expeditors	1 058	261	797	209	29	680	12	66	33.3	34.6	96.9	88.3	61.7	15.3	0.8	0.3				
Traffic, shipping, and receiving clerks	730	358	372	268	24	264	36	89	31.4	30.1	74.6	76.6	2.5	1.9	—	—				
Stock and inventory clerks	2 712	1 091	1 621	823	213	198	45	96	28.6	38.1	79.9	73.2	8.2	8.4	0.5	—				
Other material recording, scheduling, and distributing clerks	1 294	233	1 061	157	45	155	39	54	36.6	36.5	69.1	62.3	18.0	6.8	—	—				
Adjusters and investigators	2 950	460	2 490	366	45	165	27	196	31.8	34.1	95.4	92.5	44.3	12.2	6.0	0.6				
Date-entry keyers	2 878	159	2 719	86	41	435	18	173	31.1	29.0	86.2	94.0	29.6	5.3	—	0.4				
Other administrative support occupations	48 512	3 581	44 931	2 751	539	38 728	363	2 653	30.6	34.7	82.1	85.0	34.5	10.9	1.5	0.8				
Service occupations	1 037 410	108 866	928 544	78 956	23 896	154 836	7 577	42 215	30.2	33.3	56.1	63.9	9.3	3.0	1.5	0.7				
Private household occupations	3 454	3 062	392	—	—	—	—	—	50.3	—	62.0	65.1	6.7	—	0.6	—				
Protective service occupations	3 278	2 908	370	2 366	562	283	182	37	50.3	35.5	62.0	65.1	6.7	—	0.6	—				
Guards	176	154	22	2 242	21	80	9	37	50.8	34.3	60.8	63.0	3.1	3.2	—	—				
Other protective service occupations	1 033 956	105 804	928 152	76 590	23 334	154 756	7 345	42 178	29.8	33.3	55.9	63.9	9.4	3.0	1.5	0.7				
Service occupations, except protective and household	106 788	16 977	89 811	12 241	3 554	14 985	1 380	3 402	25	30.9	48.9	48.9	3.0	1.3	0.1	0.2				
Food preparation and service occupation	783 273	43 713	739 560	30 679	10 643	118 012	2 571	37 855	29.1	31.8	48.9	48.9	16.6	3.2	2.5	0.7				
Health service occupations	104 373	40 257	64 116	30 154	8 083	46 024	3 050	4 511	34.6	45.2	45.6	38.0	12.9	1.1	1.0	0.7				
Cleaning and building service occupations, except household	39 522	4 857	34 665	3 516	1 054	6 799	344	1 400	31.0	41.0	71.5	59.3	19.9	6.4	2.6	2.7				
Personal service occupations	2 646	2 248	398	1 794	319	47	209	41	36.3	34.5	44.6	58.3	4.0	12.6	2.4	7.0				
Farming, forestry, and fishing occupations	61 255	41 975	20 080	36 006	2 374	1 523	3 095	1 029	36.5	31.3	78.8	81.4	10.8	7.8	17.5	3.6				
Precision production, craft, and repair occupations	3 944	3 437	220	3 216	305	30	208	22	40.4	31.1	66.7	77.0	3.8	23.3	2.2	2.2				
Mechanics and repairers	431	397	24	376	18	9	23	—	44.4	41.7	78.3	73.5	6.8	—	2.8	—				
Automobile mechanics and repairers	326	306	20	282	18	5	15	—	36.3	30.9	50.0	100.0	2.9	—	2.3	—				
Industrial mechanics	1 225	1 208	17	1 085	114	—	50	6	44.9	32.1	70.9	35.3	2.2	—	2.5	—				
Electronic repairers, communications and industrial equipment	114	58	56	51	7	11	—	—	36.6	30.7	79.3	91.1	12.1	46.4	—	—				
Heating, air conditioning, and refrigeration mechanics	247	247	—	247	—	—	3	—	37.3	37.3	72.1	—	—	—	—	—				
Other mechanics and repairers	1 601	1 458	143	1 252	155	5	115	16	37.5	29.2	62.3	74.1	4.9	23.9	2.3	—				
Construction trades	4 796	4 464	332	3 896	408	45	209	20	42.5	33.9	61.2	60.2	4.7	2.1	3.5	2.4				
Supervisors, construction occupations	1 728	665	63	633	27	—	18	8	43.5	39.7	67.4	68.3	6.8	—	1.4	3.2				
Carpenters	1 253	1 190	63	1 056	108	7	76	6	42.2	33.1	64.5	65.1	6.1	11.1	5.5	—				
Electricians	467	451	16	382	35	8	30	6	42.4	30.0	83.4	25.0	6.2	—	4.9	—				
Painters, construction and maintenance	1 353	1 220	133	1 029	190	30	34	—	41.5	26.8	49.4	54.9	4.8	—	—	—				
Plumbers, pipefitters, and steamfitters	720	600	72	600	74	—	48	—	43.6	33.2	56.3	68.4	0.3	—	0.8	—				
Other construction trades	275	218	57	196	14	—	8	—	38.1	—	—	—	—	—	—	—				

¹Persons of Spanish origin may be of any race.

Table 1. **Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.**

[Data are estimates based on a sample: see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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¹¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Educational services, government						
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male	Female	Male											Female
Employed persons 16 years and over	6 428 418	2 235 293	4 193 125	1 931 387	3 523 101	215 654	528 783	91 973	172 457	38.5	38.1	87.8	90.5	64.1	52.8	-	-
Managerial and professional specialty occupations	3 985 415	1 498 002	2 487 413	1 350 287	2 136 555	102 589	286 573	41 994	70 626	39.1	37.0	98.5	97.7	89.2	83.2	-	-
Executive, administrative, and managerial occupations	400 434	247 876	152 578	220 857	127 104	20 884	20 203	6 883	5 241	44.6	43.5	97.5	91.8	85.5	50.5	-	-
Offices, administrative, and public administration	2 007	1 207	800	1 580	798	27	62	12	11	46.6	40.9	100.0	98.8	97.6	31.3	-	-
Financial managers	2 602	1 722	880	1 580	798	91	31	43	11	42.1	40.9	100.0	95.1	85.4	58.4	-	-
Managers, marketing, advertising, and public relations	858	392	466	356	419	21	35	18	13	40.3	36.6	100.0	94.3	85.4	72.4	-	-
Administrators, education and related fields	252 591	178 267	74 324	159 332	60 665	15 491	11 234	4 732	2 739	45.3	43.9	98.1	96.3	91.0	72.4	-	-
Managers, medicine and health	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other specialized managers	7 280	4 750	2 530	4 238	2 046	426	367	111	92	44.0	40.9	96.2	94.5	71.5	47.4	-	-
Managers and administrators, n.e.c.	94 361	43 725	50 636	39 305	43 539	2 892	5 639	1 124	1 346	43.3	46.6	96.1	82.6	73.2	25.5	-	-
Self-employed	94 361	43 725	50 636	39 305	43 539	2 892	5 639	1 124	1 346	43.3	46.6	96.1	82.6	73.2	25.5	-	-
Management related occupations	42 555	18 813	23 742	15 866	19 637	1 936	2 870	843	1 020	39.8	37.8	96.3	96.6	66.3	36.5	-	-
Accountants and auditors	16 239	6 719	9 520	5 543	8 089	605	872	306	287	37.3	37.3	96.3	96.6	72.9	28.5	-	-
Personnel, training, and labor relations specialists	12 124	5 195	6 929	4 322	5 394	655	1 196	274	379	40.3	38.0	94.2	94.8	68.7	49.9	-	-
Buyers and purchasing agents	4 787	2 385	2 422	2 180	2 173	151	148	43	108	46.0	43.3	90.1	98.4	48.8	17.7	-	-
Inspectors and compliance officers	2 621	1 681	940	473	1 720	160	213	71	42	46.5	41.5	90.1	98.4	48.8	31.3	-	-
Other management related occupations	6 784	2 833	3 951	2 346	3 261	365	441	129	204	36.1	34.5	97.5	98.4	80.9	49.9	-	-
Professional specialty occupations	3 584 961	1 250 126	2 334 835	1 129 430	2 009 451	81 705	266 370	35 111	65 385	37.9	36.6	98.7	98.1	89.9	85.3	-	-
Engineers, architects, and surveyors	8 434	7 777	657	6 744	732	278	91	122	33	39.9	39.9	96.9	100.0	89.9	73.2	-	-
Architects	1 146	776	370	678	130	21	24	16	6	37.5	33.8	97.2	100.0	78.4	77.8	-	-
Engineers	7 087	6 519	568	5 808	508	297	28	103	8	38.4	30.1	96.8	100.0	63.6	73.1	-	-
Civil engineers	1 849	1 683	166	1 592	86	50	36	16	—	36.7	31.4	91.9	100.0	56.3	61.1	-	-
Electrical and electronic engineers	1 849	1 683	166	1 592	86	50	36	16	—	36.7	31.4	91.9	100.0	56.3	61.1	-	-
Industrial engineers	859	793	66	742	51	52	6	14	—	47.9	33.2	97.4	100.0	34.2	69.6	-	-
Mechanical engineers	859	793	66	742	51	52	6	14	—	47.9	33.2	97.4	100.0	34.2	69.6	-	-
Other engineers	3 197	2 801	396	2 414	370	88	6	63	8	46.3	35.2	93.6	100.0	49.2	45.3	-	-
Surveyors and mapping scientists	201	80	121	72	114	6	7	—	—	35.2	32.4	100.0	100.0	79.5	79.5	-	-
Computer systems analysts and scientists	4 809	3 484	1 325	3 255	1 188	69	45	121	14	33.1	32.4	99.5	98.6	67.7	65.4	-	-
Operations and systems researchers and analysts	1 459	771	688	665	449	53	166	58	90	34.6	38.9	99.2	91.6	61.5	48.0	-	-
Mathematical scientists	1 693	954	739	822	663	46	20	22	25	32.8	34.6	98.3	99.3	88.4	67.7	-	-
Natural scientists	16 471	12 054	4 417	3 996	561	141	146	184	104	32.8	31.0	98.9	99.2	88.4	67.7	-	-
Chemists, except biochemists	2 453	1 778	675	1 541	541	54	27	23	23	31.7	31.3	99.3	99.0	88.3	84.4	-	-
Other natural scientists	14 018	10 276	3 742	9 535	3 435	87	119	137	81	33.1	31.0	98.9	99.0	88.3	84.4	-	-
Health diagnosing occupations	7 311	5 685	1 626	5 260	1 417	139	81	120	49	39.3	35.0	99.9	100.0	98.3	92.6	-	-
Health assessment and treating occupations	65 690	3 621	62 069	3 223	56 630	263	4 120	107	1 174	32.6	38.2	97.9	97.8	81.2	71.1	-	-
Registered nurses	32 869	467	32 402	415	29 966	34	1 796	17	499	36.5	45.6	94.0	98.9	70.0	57.3	-	-
Other health assessment and treating occupations	32 821	3 154	29 667	2 808	26 664	229	2 324	90	675	32.2	31.5	98.5	96.6	82.9	86.1	-	-
Teachers, except postsecondary	2 747 222	839 480	1 907 742	759 261	1 634 294	61 266	229 123	23 614	53 088	37.3	36.4	98.6	98.2	91.3	87.4	-	-
Social scientists and urban planners	21 745	10 499	11 246	10 048	10 378	262	602	213	224	36.3	36.7	99.3	99.4	96.7	94.8	-	-
Social and recreation workers	18 398	5 073	13 325	3 988	9 487	853	3 268	368	820	35.9	38.8	99.6	93.9	75.4	66.5	-	-
Lawyers and judges	1 311	873	438	800	371	66	43	31	26	33.5	30.6	99.5	98.4	94.2	90.0	-	-
Writers, artists, entertainers, and athletes	34 009	17 999	16 010	16 138	14 455	1 212	932	478	563	30.2	30.5	97.7	97.8	59.1	52.7	-	-
Other professional specialty occupations	656 409	342 056	314 353	308 140	275 376	16 959	27 763	9 668	9 175	40.3	38.0	98.8	97.6	89.0	77.9	-	-
Technical, sales, and administrative support occupations	1 122 249	171 957	950 292	141 494	800 676	16 474	106 451	9 556	53 419	27.4	36.7	92.4	92.2	40.8	12.3	-	-
Technicians and related support occupations	116 623	67 958	48 665	59 157	41 773	2 682	3 515	2 376	1 438	28.7	29.0	97.4	97.2	60.8	52.0	-	-
Health technologists and technicians	12 106	4 109	7 997	3 937	6 772	633	838	370	218	29.7	33.0	96.5	95.4	61.3	45.2	-	-
Licensed practical nurses	2 106	55	2 051	43	1 966	7	377	18	178	36.8	40.5	96.4	91.1	18.2	10.1	-	-
Other health technologists and technicians	10 000	4 054	5 946	3 514	5 176	226	461	152	140	29.6	31.2	96.5	96.9	61.8	57.4	-	-
Engineering and science technicians	38 528	22 896	15 632	20 155	13 517	1 199	1 078	888	539	27.2	25	95.9	96.6	36.4	38.0	-	-
Electrical and electronic technicians	4 803	4 235	568	3 928	439	153	100	142	16	32.8	27.1	95.3	96.1	13.8	12.1	-	-
Industrial and mechanical engineering technicians	2 111	1 445	66	1 339	66	6	—	—	—	32.4	39.7	92.8	100.0	20.0	39.4	-	-
Drafting and surveying technicians	2 429	1 661	768	1 402	704	129	25	104	18	28.3	27.5	93.4	95.2	35.8	40.4	-	-
Other engineering and science technicians	31 085	16 855	14 230	14 686	12 308	911	1 593	642	505	25.7	25	96.4	96.6	42.3	38.9	-	-
Technicians, except health, engineering, and science	65 989	40 953	25 036	35 485	21 484	1 250	1 599	642	505	25.7	25	96.4	96.6	42.3	38.9	-	-
Airplane pilots and navigators	79	47	32	67	12	105	18	33	3	29.2	29.8	98.4	98.1	74.4	62.8	-	-
Air traffic controllers and broadcast equipment operators	1 160	827	338	708	12	3	—	—	—	48.9	49.3	89.6	100.0	49.3	100.0	-	-
Computer programmers	12 999	8 498	4 501	8 030	3 708	135	224	257	159	25	25	93.4	95.9	19.0	14.5	-	-
Other technicians, except health, engineering, and science	51 821	31 266	20 555	26 680	17 455	1 010	1 357	1 021	519	27.6	28.5	97.1	98.1	80.5	47.1	-	-

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction.]

United States														
Employed persons 16 years and over—Con.														
Educational services, government														
Total			White		Black		Spanish origin ^a		Median age		Percent completed 4 or more years of college			
Both sexes			Male		Female		Male		Female		Male		Female	
33 577	4 669	28 908	4 063	25 505	403	2 686	269	1 077	25—	42.7	92.2	79.0	28.9	4.6
1 449	729	720	615	624	78	76	38	27	37.1	45.3	91.5	91.4	42.0	20.3
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
472	304	168	268	151	8	17	—	2	35.6	25—	100.0	100.0	67.1	29.2
1	6	5	—	5	—	—	—	—	40.0	30.0	—	—	—	—
30 927	2 282	27 645	2 857	24 345	297	2 587	170	1 023	25—	42.7	91.1	78.5	21.2	4.0
26 698	1 921	24 777	1 646	21 889	189	2 294	107	943	25—	43.6	90.6	77.5	14.9	3.0
4 229	1 361	2 868	1 211	2 466	108	293	63	80	25—	29.1	91.7	87.8	30.1	12.5
718	348	370	311	360	20	6	61	25	42.1	46.9	97.7	81.4	41.1	7.6
972 049	99 330	872 719	78 234	733 398	13 389	100 250	6 911	50 904	25.8	37.1	88.9	92.3	27.7	10.4
18 873	6 190	12 703	5 178	6 387	748	1 574	318	307	38.7	43.3	91.6	95.2	40.7	16.9
13 956	4 446	7 510	5 378	4 466	583	764	305	307	26.4	30.5	91.6	95.0	25.4	12.4
398 456	3 765	394 700	3 446	3 411	676	34 116	319	15 611	25—	38.5	90.2	95.2	21.9	7.2
333 034	3 011	330 023	2 473	297 855	353	25 094	159	11 480	26.0	39.6	91.0	95.8	24.9	7.4
63 422	1 745	61 677	1 307	48 556	323	9 322	160	4 131	25—	31.1	88.7	91.5	15.2	6.3
19 386	3 002	16 384	2 400	13 220	340	2 333	121	1 019	25—	25—	95.7	93.4	13.3	7.7
17 246	2 107	15 139	2 002	13 220	241	2 333	77	1 019	25—	25—	95.4	90.4	42.9	20.3
11 938	2 345	9 593	1 696	6 781	528	2 643	208	729	25—	25—	88.3	83.7	13.2	6.7
108 532	17 558	90 974	13 813	78 048	2 094	8 950	1 087	3 763	25—	34.4	78.9	86.6	21.9	17.6
39 728	2 763	36 965	2 204	33 453	295	2 177	134	1 162	32.3	41.8	96.6	94.9	33.8	6.3
6 747	2 688	4 059	1 187	5 596	69	639	46	309	35.8	39.5	92.9	93.0	25.0	6.5
3 191	911	2 280	734	1 965	99	252	42	60	33.9	33.7	95.8	91.0	71.0	44.1
6 721	715	6 006	583	4 932	97	768	42	337	23—	33.2	85.0	89.2	1.3	4.9
9 867	5 647	4 220	4 489	3 286	869	771	296	165	23—	23—	93.4	93.6	36.0	25.1
3 268	1 182	2 085	1 044	1 914	95	291	90	77	31.3	33.5	93.1	87.6	12.6	8.1
2 288	1 645	643	1 306	576	224	36	200	373	31.3	32.4	93.4	91.6	14.8	9.6
10 235	6 557	3 678	5 325	3 015	862	509	353	187	25—	34.9	90.4	87.0	35.9	19.7
2 290	701	1 589	582	1 358	81	188	50	101	35.3	38.1	92.3	93.9	21.7	8.1
2 582	608	1 974	528	1 453	64	375	21	202	25—	30.6	92.3	89.8	36.9	12.8
9 087	736	8 351	645	6 747	57	1 104	38	456	25—	37.1	92.1	92.3	21.7	8.1
298 425	35 193	263 232	26 719	204 191	5 367	42 180	3 036	25 675	26.7	37.1	92.1	89.8	36.9	12.8
996 332	361 275	635 057	270 868	481 631	69 636	122 308	28 084	45 046	41.4	43.9	55.2	63.4	4.2	4.0
33 178	23 861	9 317	17 678	6 966	4 948	2 002	1 389	415	32.2	27.4	79.4	74.4	9.9	5.6
31 865	22 705	9 160	16 785	6 845	4 726	1 966	1 357	410	31.7	27.1	88.9	74.5	9.5	5.4
1 313	1 156	157	893	121	272	36	32	5	41.9	37.2	78.8	73.2	17.8	19.1
963 154	337 414	625 740	253 190	474 655	64 688	120 306	26 695	44 651	40.2	44.1	53.5	63.2	3.8	4.0
331 276	22 642	308 634	16 376	251 930	4 535	47 374	1 386	14 104	25—	47.7	71.3	94.4	56.6	1.4
15 775	1 780	13 995	1 322	9 930	371	3 367	39	1 102	29.4	37.7	75.4	80.3	19.9	7.9
397 986	294 491	103 495	222 638	62 129	56 084	36 379	23 303	6 979	45.6	46.0	50.1	39.4	2.4	1.1
218 117	18 501	199 616	12 854	151 534	3 698	33 166	1 967	21 626	25—	38.6	83.8	84.7	21.0	9.4
21 888	18 331	3 557	14 555	3 002	2 157	383	2 477	210	35.3	30.1	60.4	85.2	6.1	10.4
99 736	88 999	11 337	76 896	9 402	8 221	1 313	4 667	535	44.0	43.0	67.9	74.9	5.6	13.0
37 022	34 704	2 318	30 672	2 205	2 854	2 205	1 630	123	40.9	33.8	68.9	90.6	5.4	16.0
2 309	2 091	218	1 937	202	111	9	26	8	48.6	25—	78.4	96.3	17.5	6.4
6 058	5 877	181	5 001	146	555	21	448	30	37.7	28.9	60.8	83.6	3.1	18.2
3 974	3 893	81	3 514	70	276	—	113	11	45.2	25—	65.3	77.8	4.1	—
4 578	3 636	942	3 271	806	237	113	186	24	33.0	37.0	89.2	95.6	14.2	25.1
3 975	3 950	25	3 434	25	351	—	211	—	40.4	39.6	75.3	80.0	2.7	—
16 128	15 257	871	13 515	764	1 324	62	646	50	41.8	35.1	65.2	86.1	3.6	10.1
39 927	38 903	1 024	33 782	786	3 560	178	2 378	38	45.7	26.5	64.3	74.7	3.5	14.3
3 032	2 927	105	2 702	61	166	33	73	5	50.2	32.0	75.5	94.3	9.5	15.2
11 481	11 133	348	9 912	270	788	75	615	8	46.3	28.1	64.4	73.3	3.8	19.0
8 146	8 055	91	7 246	88	553	—	372	3	43.2	25.4	76.0	86.8	3.2	9.9
8 217	7 880	337	6 412	265	1 018	47	728	11	43.4	25—	53.7	63.2	2.5	6.5
6 387	6 303	64	5 403	49	638	6	442	5	46.3	39.4	60.1	97.2	2.1	23.4
2 684	2 605	79	2 107	53	397	17	148	6	46.6	27.0	56.9	75.9	1.1	22.8

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

[illegible]

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con. [Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States	Educational services, private																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
Employed persons 16 years and over	1 948 795	696 727	1 252 068	609 143	1 106 364	57 561	110 069	26 679	40 747	33.7	34.5	88.4	91.1	53.4	44.2	2.9	4.5
Managerial and professional specialty occupations	1 102 343	417 882	684 461	382 274	626 542	21 192	42 340	10 944	16 342	36.0	34.9	97.4	96.9	78.5	71.6	4.1	7.8
Executive, administrative, and managerial occupations	161 348	80 258	81 090	72 742	72 131	5 247	6 951	2 156	2 203	39.8	39.1	96.6	94.9	72.3	52.5	2.0	1.6
Officials and administrators, public administration	35	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	2 348	1 472	876	1 367	762	85	93	22	20	40.5	41.5	99.9	98.2	77.0	42.1	1.2	—
Managers, marketing, advertising, and public relations	1 149	707	442	680	442	—	—	18	9	40.4	33.5	92.9	95.2	51.6	39.1	2.0	1.4
Administrators, education and related fields	89 852	47 257	42 595	43 281	38 271	3 132	3 511	970	1 002	40.4	40.1	96.7	97.1	80.4	66.3	1.3	1.5
Managers, medicine and health	3 648	1 973	1 675	1 793	1 454	137	203	28	31	40.8	34.8	96.8	95.9	56.7	49.3	0.7	2.1
Other specified managers	44 924	20 890	24 034	18 867	21 569	1 055	1 852	711	632	36.8	39.8	95.8	89.9	60.6	34.4	3.6	2.1
Managers and administrators, n.e.c.	43 451	20 034	23 417	18 086	21 022	1 005	1 817	719	602	36.5	39.7	96.1	89.8	60.6	34.1	—	—
Self-employed	1 473	856	617	781	547	50	35	52	30	45.7	42.1	88.4	91.1	43.9	45.7	87.7	80.1
Management related occupations	19 392	7 924	11 468	6 719	9 633	838	1 292	340	509	35.8	34.2	97.7	97.2	61.4	40.9	2.3	1.2
Accountants and auditors	7 375	3 147	4 228	2 593	3 505	384	406	149	208	34.2	35.6	99.6	98.1	67.7	35.4	0.7	0.8
Personnel, training, and labor relations specialists	5 207	1 909	3 298	1 598	2 676	243	494	72	209	35.4	33.1	97.4	96.3	53.7	50.2	2.8	1.8
Buyers and purchasing agents	1 757	779	978	684	913	49	61	46	—	40.9	41.0	94.2	94.4	36.8	22.7	—	—
Inspectors and compliance officers	1 520	731	800	531	669	15	35	26	10	42.4	43.3	87.5	83.6	29.1	16.4	10.0	1.6
Other management related occupations	4 533	1 728	2 805	1 513	2 385	147	326	47	82	35.6	33.0	98.3	98.5	76.4	46.1	4.1	0.9
Professional specialty occupations	940 995	337 624	603 371	309 532	554 411	15 945	35 389	8 788	14 139	35.1	34.5	97.6	97.1	79.9	74.1	4.6	8.7
Engineers, architects, and surveyors	5 426	4 785	641	4 302	533	146	64	92	5	37.4	32.6	98.7	97.4	66.9	63.0	1.5	7.8
Architects	406	310	96	288	82	22	9	8	—	32.6	32.6	93.9	100.0	76.5	57.3	1.6	—
Engineers	4 955	4 442	513	3 981	419	124	55	84	5	36.0	32.6	98.0	93.3	66.2	56.9	1.6	9.7
Civil engineers	2 555	1 198	1 357	1 156	1 235	15	24	19	—	36.0	32.6	98.0	93.3	66.2	56.9	1.6	—
Electrical and electronic engineers	1 633	1 551	82	1 474	82	25	5	19	—	37.8	36.0	99.1	100.0	56.9	45.1	—	—
Industrial engineers	208	161	47	132	208	42	5	39	—	45.3	40.0	100.0	97.1	61.5	36.4	1.4	—
Mechanical engineers	509	487	22	419	254	18	8	26	—	37.3	34.6	99.4	100.0	77.9	70.2	1.8	16.4
Other engineers	2 350	2 045	305	1 780	254	66	18	26	—	37.7	35.6	100.0	100.0	69.7	53.1	—	—
Surveyors and mapping scientists	65	33	32	33	—	—	—	—	—	27.8	25.6	96.7	95.2	73.3	82.1	—	—
Computer systems analysts and scientists	1 909	1 291	618	1 176	542	53	28	30	35	31.1	30.6	99.3	98.9	68.3	65.0	3.0	—
Operations and systems researchers and analysts	494	275	219	262	146	8	9	17	9	31.5	30.6	97.8	100.0	39.7	39.7	—	0.9
Mathematical scientists	785	465	320	447	256	8	30	17	—	31.5	28.4	98.7	100.0	76.1	68.4	3.4	—
Natural scientists	7 782	5 514	2 268	4 746	1 913	123	57	104	111	32.6	30.5	99.1	98.5	89.4	80.2	0.8	1.8
Chemists, except biochemists	1 464	1 069	395	852	313	39	74	11	27	32.4	30.0	99.3	100.0	86.2	84.3	—	—
Other natural scientists	6 318	4 445	1 873	3 894	1 600	84	47	93	84	32.7	30.6	99.0	98.2	90.2	79.4	1.0	2.2
Health diagnosing occupations	5 951	4 742	1 209	4 277	1 049	241	69	105	54	39.3	36.9	99.9	99.4	97.7	92.4	8.0	9.6
Health assessment and treating occupations	17 337	1 018	16 319	946	15 120	64	921	25	222	31.3	36.2	97.3	97.4	67.7	61.7	6.6	2.7
Registered nurses	10 398	195	10 203	174	9 531	16	503	5	143	32.3	41.0	100.0	98.7	44.1	49.4	5.1	1.5
Other health assessment and treating occupations	6 939	823	6 116	772	5 589	48	418	20	79	31.1	31.1	96.7	95.2	73.3	82.1	6.9	4.6
Teachers, except postsecondary	597 095	155 226	441 869	143 638	409 105	7 587	24 355	4 569	10 203	33.5	34.6	96.2	96.9	76.9	75.4	8.3	11.3
Social scientists and urban planners	5 477	2 863	2 614	2 726	2 386	54	135	73	91	34.5	34.2	99.8	99.2	92.7	90.5	3.9	8.4
Social and recreation workers	4 723	1 694	3 029	1 338	2 382	264	510	102	155	30.3	33.4	97.4	95.1	67.1	67.8	1.7	2.6
Lawyers and judges	1 173	901	272	842	239	59	16	—	20	34.4	30.7	99.4	97.1	97.3	89.3	36.1	10.3
Writers, artists, entertainers, and athletes	24 521	13 287	11 234	12 045	10 554	739	436	374	207	28.9	29.7	97.7	97.8	54.7	34.6	6.6	7.1
Other professional specialty occupations	268 322	145 563	122 759	132 787	110 186	6 599	8 698	3 297	3 018	38.8	34.9	98.8	97.6	85.0	72.6	0.5	0.6
Technical, sales, and administrative support occupations	444 444	89 824	354 620	75 503	306 544	7 910	35 097	3 794	14 304	25—	30.6	94.7	94.0	35.4	15.4	1.0	0.3
Technicians and related support occupations	58 687	33 436	25 251	28 687	21 609	1 562	1 933	1 081	900	27.0	27.7	97.9	97.2	53.7	51.2	0.8	0.8
Health technologists and technicians	8 565	3 192	5 373	2 605	4 541	278	522	140	203	29.5	31.7	96.3	95.6	63.8	49.2	0.8	1.2
Licensed practical nurses	1 080	23	1 057	23	850	—	183	—	22	32.2	36.9	100.0	88.1	8.7	7.6	—	2.7
Other health technologists and technicians	7 485	3 169	4 316	2 582	3 691	278	339	140	181	29.5	30.8	96.2	97.5	64.2	59.4	0.8	0.8
Engineering and science technicians	19 293	11 229	8 064	9 917	6 977	589	595	399	325	25—	25.9	96.5	96.3	27.7	30.0	0.5	0.1
Electrical and electronic technicians	2 220	1 883	347	1 662	1 119	119	45	101	33	32.0	25.9	92.2	92.2	17.7	25.6	0.8	—
Industrial and mechanical engineering technicians	81	67	14	67	14	—	—	—	—	25—	25.9	96.5	96.3	27.7	30.0	0.5	0.1
Drafting and surveying technicians	980	727	253	621	241	63	10	15	7	28.1	30.3	97.9	93.7	25.1	53.0	—	—
Other engineering and science technicians	15 992	8 557	7 435	7 567	6 438	407	540	283	285	25—	25—	97.5	96.7	30.2	29.4	0.1	0.1
Technicians, except health, engineering, and science	30 829	19 015	11 814	16 165	10 091	695	816	542	372	28.2	29.0	98.9	98.5	67.4	66.5	1.1	1.2
Airplane pilots and navigators	218	207	11	207	11	—	—	4	—	32.2	32.9	100.0	100.0	36.7	100.0	20.3	—
Air traffic controllers and broadcast equipment operators	645	512	133	474	124	132	9	17	—	25—	25—	93.8	98.8	11.5	12.0	2.1	—
Computer programmers	7 170	4 981	2 189	4 512	1 877	182	126	136	79	25—	27.4	98.8	98.5	43.8	50.1	0.1	2.0
Other technicians, except health, engineering, and science	22 796	13 315	9 481	10 972	8 079	480	681	385	293	29.5	29.5	99.2	98.4	78.8	71.0	1.1	1.0

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	United States											
	Educational services, private						Educational services, private					
	Race						Race					
	Total		White		Black		Total		White		Black	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	19 545	5 908	13 637	5 289	410	1 287	143	403	30.1	33.3	93.4	85.5
Supervisors and proprietors, sales occupations	1 263	571	692	511	46	54	14	11	38.4	48.0	88.8	92.3
Sales representatives, finance and business services	1 183	535	648	475	46	54	14	11	38.4	48.0	88.8	92.3
Sales representatives, commodities, except retail	80	36	44	36	—	—	—	—	52.5	53.5	94.4	100.0
Sales workers, retail and personal services	317	211	106	181	10	—	—	—	29.9	32.4	82.9	100.0
Cashiers	17 869	5 081	12 788	4 552	354	1 225	129	386	40.0	42.2	100.0	100.0
Other sales occupations, retail and personal services	10 432	1 362	9 070	1 167	127	1 078	25	308	28.8	32.2	94.4	85.0
Sales related occupations	7 437	3 719	3 718	3 385	227	1 078	104	78	33.5	34.7	95.3	82.8
Administrative support occupations, including clerical	366 212	50 480	315 732	41 527	5 938	31 877	2 570	13 001	30.1	33.3	93.4	85.5
Supervisors, administrative support occupations	8 080	2 734	5 346	2 266	353	1 167	116	339	30.1	33.3	93.4	85.5
Computer operators	6 607	3 126	3 481	2 656	256	333	85	163	30.1	33.3	93.4	85.5
Secretaries, stenographers, and typists	159 120	3 414	155 706	2 820	411	13 268	205	5 469	25.0	25.5	96.8	95.3
Stenographers and typists	138 347	2 381	136 066	1 957	231	10 227	89	34.8	25.0	25.5	96.8	95.3
Receptionists	20 715	2 353	18 362	1 863	180	3 041	116	1 096	25.0	25.5	96.8	95.3
Other information clerks	10 117	2 707	7 410	1 904	211	1 583	113	690	25.0	25.5	96.8	95.3
File clerks	4 541	1 488	3 053	1 389	97	269	98	134	25.0	25.5	96.8	95.3
Other records processing occupations, except financial	36 346	9 318	27 028	7 785	960	3 109	456	912	25.0	25.5	96.8	95.3
Bookkeepers, accounting, and auditing clerks	17 668	1 742	15 926	1 345	246	1 167	116	339	30.1	33.3	93.4	85.5
Payroll and timekeeping clerks	1 766	93	1 673	76	12	153	23	42	25.0	25.5	96.8	95.3
Other financial records processing occupations	1 310	289	1 021	270	13	153	23	42	25.0	25.5	96.8	95.3
Telephone operators	6 343	1 099	5 244	2 934	84	518	46	156	25.0	25.5	96.8	95.3
Mail and message distributing occupations	7 297	3 602	3 695	2 934	518	1 118	136	59	25.0	25.5	96.8	95.3
Production coordinators and expeditors	1 760	965	1 125	517	65	118	34	59	25.0	25.5	96.8	95.3
Traffic, shipping, and receiving clerks	1 309	327	982	778	138	117	102	24	25.0	25.5	96.8	95.3
Stock and inventory clerks	3 327	2 314	1 013	1 849	318	117	132	56	25.0	25.5	96.8	95.3
Other material recording, scheduling, and distributing clerks	827	297	530	260	4	72	10	19	25.0	25.5	96.8	95.3
Adjusters and investigators	1 620	599	1 021	559	34	49	—	—	33.2	30.4	96.7	90.8
Date-entry keyers	3 759	349	3 410	2 999	25	633	25	175	25.0	25.5	96.8	95.3
Other administrative support occupations	81 523	14 646	66 877	11 718	1 965	8 651	758	4 165	25.0	25.5	96.8	95.3
Service occupations	305 501	124 183	181 318	96 532	21 196	29 933	8 166	9 061	30.3	39.6	63.9	66.5
Private household occupations	19 656	14 892	4 764	11 950	2 451	484	639	144	27.0	25.0	82.2	92.4
Protective service occupations	18 985	14 235	4 750	11 399	2 357	484	575	144	26.3	25.0	81.7	92.3
Guards	671	657	14	551	94	—	64	—	37.7	28.3	92.7	100.0
Other protective service occupations	285 845	109 291	176 554	84 582	18 745	29 449	7 327	8 917	30.8	40.1	61.5	65.8
Food preparation and service occupations	115 495	21 732	93 763	17 082	3 457	11 545	1 075	3 576	25.0	42.6	76.0	64.7
Health service occupations	5 581	871	4 710	689	92	1 545	3 362	362	25.9	34.8	88.4	77.7
Cleaning and building service occupations, except household	113 570	78 234	35 336	60 080	14 050	11 134	5 810	2 313	35.1	43.6	54.3	47.3
Personal service occupations	51 199	8 434	42 765	6 721	1 146	5 621	540	2 666	25.0	33.9	67.8	82.1
Farming, forestry, and fishing occupations	9 013	7 744	1 269	6 288	884	64	747	51	29.9	25.0	62.1	86.4
Precision production, craft, and repair occupations	33 521	29 246	4 275	25 604	2 778	446	1 346	133	39.4	35.7	70.4	79.7
Mechanics and repairers	10 445	9 669	776	8 543	804	75	518	30	34.4	26.3	73.6	88.3
Supervisors, mechanics and repairers	1 437	1 399	38	1 229	11	6	39	—	40.4	25.0	86.1	93.8
Automobile mechanics, including body	1 461	1 399	62	1 229	148	—	68	—	40.8	25.0	66.7	87.1
Industrial machinery repairers	1 305	1 072	233	934	96	19	23	4	26.7	26.9	88.2	88.0
Electronic repairers, communications and industrial equipment	4 510	1 964	—	837	121	—	40	—	33.8	33.9	73.4	73.4
Heating, air conditioning, and refrigeration mechanics	14 311	13 781	530	12 032	376	90	636	17	40.8	25.0	64.8	83.8
Other mechanics and repairers	1 096	1 036	60	928	77	12	35	6	45.6	46.1	83.8	83.8
Construction trades	4 663	4 446	217	3 958	368	48	238	4	41.0	25.0	71.2	87.1
Supervisors, construction occupations	2 862	2 775	87	2 485	232	5	145	—	39.6	38.6	71.2	77.0
Carpenters	2 502	2 407	95	2 034	292	7	118	—	40.0	25.0	56.9	83.2
Electricians	2 206	2 185	21	1 894	263	18	48	—	42.2	30.0	67.2	100.0
Painters, construction and maintenance	982	932	50	738	144	—	52	—	35.7	25.0	47.3	47.3
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—
Persons of Spanish origin may be of any race.												

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Educational services, private											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Black						
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extrusive occupations	34	16	18	16	18	—	—	—	25.0	36.8	50.0	100.0
Precision production occupations	8 731	5 780	2 951	5 013	2 554	598	192	86	39.6	40.7	78.2	76.7
Supervisors, production occupations	2 593	1 580	1 013	1 360	890	188	18	29	39.6	40.0	85.6	85.6
Precision metalworking occupations	1 103	637	466	995	28	70	34	—	40.8	25	7.3	25.6
Tool and die makers	18	18	—	16	—	—	—	—	40.8	—	—	—
Mechanics	772	739	33	689	16	30	7	—	46.9	25	8.8	81.8
Sheet metal workers	113	106	7	92	12	7	—	—	39.7	25	85.0	100.0
Other precision metal workers	259	240	19	198	42	33	20	—	41.6	25	72.9	100.0
Precision textile, apparel, and furnishings machine workers	579	483	96	579	418	—	13	35	39.4	25	66.7	78.9
Precision food production occupations	1 455	416	1 039	393	933	8	100	11	34.6	47.8	81.7	64.4
Precision inspectors, testers, and related workers	25	15	10	9	5	—	6	—	25	35.0	100.0	100.0
Plant and system operators	2 126	2 059	67	1 689	55	306	83	—	46.7	36.8	77.7	77.6
Other precision production occupations	791	511	280	471	225	26	27	11	37.8	28.5	83.8	82.1
Operators, fabricators, and laborers	53 973	27 848	26 125	22 942	23 365	3 601	1 682	856	31.0	36.6	67.6	74.1
Machine operators, assemblers, and inspectors	13 714	8 416	5 298	6 965	4 579	935	590	232	26.6	26.6	74.7	77.1
Machine operators and tenders, except precision	10 926	6 637	4 289	5 484	3 674	784	435	174	27.7	27.4	75.9	77.6
Metalworking and plastic working machine operators	1 488	113	35	91	24	17	4	—	25	39.4	59.3	68.6
Fabricating machine operators, n.e.c.	23	21	2	21	2	—	—	—	33.9	25	—	—
Metal and plastic processing and woodworking machine operators	301	197	104	186	91	6	29	—	25.8	33.4	73.6	74.0
Printing machine operators	3 056	1 840	1 216	1 494	1 077	196	161	33	27.9	28.3	83.7	86.3
Textile machine operators	25	13	12	13	12	—	8	—	33.1	25	100.0	100.0
Textile sewing machine operators	207	17	190	17	177	—	—	—	42.0	51.0	58.8	73.2
Laundering and dry cleaning machine operators	1 091	269	822	216	691	19	29	12	25	41.6	63.6	50.3
Packaging and filling machine operators	77	15	62	—	35	6	—	—	25	25	100.0	90.3
Furnace, kiln, and oven operators	1 361	324	37	1 146	37	157	42	—	46.1	25	55.4	83.8
Other specified machine operators	2 240	1 406	834	1 187	697	142	81	59	25	25	91.2	85.0
Miscellaneous and not specified machine operators	2 397	1 422	975	1 113	831	221	81	41	25.6	25	73.3	83.5
Fabricators, assemblers, and hand working occupations	1 971	1 335	636	1 064	565	160	129	38	25.9	27.1	61.4	63.1
Welders and cutters	752	717	35	547	21	87	88	9	28.4	28.3	61.1	88.6
Solders and brazers	12	6	—	6	—	—	—	—	50.0	25	—	100.0
Assemblers	1 032	514	518	432	467	61	41	29	25	27.5	58.8	58.5
Hand working occupations	175	98	77	77	77	12	—	—	25	25	81.6	79.2
Production inspectors, testers, samplers, and weighers	817	444	373	417	340	11	26	20	25	25	96.2	94.4
Graders and sorters, except agricultural	647	342	305	320	285	11	21	9	25	25	97.4	95.1
Other production inspectors, testers, samplers, and weighers	170	102	68	97	55	—	5	11	25	27.3	92.2	91.2
Transportation and material moving occupations	31 895	13 379	18 516	11 166	16 883	1 772	705	494	41.4	38.7	62.1	72.9
Transportation occupations	31 325	12 863	18 462	10 740	16 835	1 715	658	494	42.0	38.7	61.9	72.9
Motor vehicle operators	31 261	12 800	18 461	10 677	16 834	1 715	658	494	42.0	38.7	61.8	72.9
Truck drivers	2 810	2 316	494	1 849	421	356	167	15	32.1	35.6	64.9	75.1
Driver-sales workers	218	131	87	110	67	21	7	—	26.3	40.0	71.0	62.1
Other motor vehicle operators	28 233	10 353	17 880	8 718	16 346	1 338	484	479	44.9	38.7	60.9	72.9
Rail and water transportation occupations	64	63	1	63	1	—	—	—	35.3	50.0	84.1	—
Material moving equipment operators	570	516	54	426	48	57	47	—	30.9	34.5	68.4	96.3
Supervisors, material moving equipment operators	40	26	14	19	14	7	—	—	25	45.0	80.8	100.0
Crane, hoist and winch operators	13	13	—	5	—	—	8	—	25	—	100.0	100.0
Excavating, grading, and dozer machine operators	65	59	6	53	6	6	—	—	41.5	30.0	67.8	100.0
Other material moving equipment operators	452	418	34	349	28	44	39	—	30.2	36.8	66.7	94.1
Handlers, equipment cleaners, helpers, and laborers	8 364	6 053	2 311	4 811	1 903	894	387	130	25	25	70.1	76.5
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	111	50	61	36	54	14	—	—	40.4	34.2	100.0	100.0
Helpers, craft and production	918	704	214	535	152	100	88	25	25	25	60.7	79.9
Construction laborers	553	508	45	393	36	66	60	36	25	25	65.4	93.3
Freight, stock, and material handlers	1 576	1 241	335	1 020	306	161	54	20	25	25	77.8	87.2
Garage and service station occupations, and equipment cleaners	415	294	121	241	94	30	6	5	25	25	75.2	86.8
Hand packers and packagers	514	321	193	261	159	45	13	12	25	25	54.8	64.2
Laborers, except construction	4 277	2 935	1 342	2 325	1 102	478	166	68	25	25	70.5	72.5

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Social services, religious and membership organizations																
	Total					Race					Spanish origin ¹					Median age					Percent completed 4 or more years of college					Percent self-employed	
	Both sexes		Male		Female	White		Black			Male		Female	Male		Female	Male		Female	Male		Female	Male	Female			
Employed persons 16 years and over	2 115 878	798 999	1 316 879	682 939	1 071 355	84 358	195 789	35 408	64 786	40.5	37.4	82.3	82.5	48.0	24.3	7.2	3.8										
Managerial and professional specialty occupations	1 059 425	539 520	519 905	478 008	432 575	44 106	69 533	18 415	21 037	41.4	35.4	92.8	92.4	64.9	47.2	10.0	4.2										
Executive, administrative, and managerial occupations	269 049	135 275	133 774	119 096	113 665	11 567	16 094	5 357	4 733	42.8	38.9	90.3	92.4	50.8	41.0	1.4	5.4										
Officials and administrators, public administration	40	35	5	25	103	10	68	72	30	47.1	50.0	65.7	47.1	47.1	31.3	0.6	0.7										
Financial managers	3 254	2 035	1 219	1 873	1 103	63	68	54	8	42.2	41.2	99.2	94.9	77.3	31.3	0.6	0.7										
Managers, marketing, advertising, and public relations	2 180	1 435	745	1 378	55	37	55	54	8	41.9	39.7	96.1	91.3	53.5	38.7	0.4	2.7										
Administrators, education and related fields	25 936	3 469	22 467	2 777	18 426	573	3 456	133	633	37.1	37.7	92.3	91.5	64.9	41.9	12.1	14.7										
Managers, medicine and health	5 488	3 012	2 476	2 590	2 035	336	388	111	98	44.8	39.1	89.0	94.2	49.6	46.1	3.2	2.2										
Other specified managers	194 196	104 844	89 352	93 039	77 467	8 603	9 355	3 898	3 063	43.3	39.9	90.1	92.3	50.6	41.0	1.1	4.2										
Managers and administrators, n.e.c.	188 079	103 435	84 644	91 729	73 313	8 530	9 719	3 822	2 929	43.2	39.5	90.1	92.9	50.6	41.7	—	—										
Salaries	6 117	4 109	4 708	1 310	4 154	73	436	76	134	45.2	45.0	90.4	80.9	55.3	28.1	81.8	79.0										
Self-employed	10 092	6 679	3 413	6 276	2 846	294	414	219	160	45.2	34.9	82.7	95.4	33.8	40.3	1.3	1.3										
Management related occupations	37 955	20 445	17 510	17 414	13 945	1 945	2 772	1 076	901	41.5	35.4	90.0	94.1	46.7	39.8	1.1	0.8										
Accountants and auditors	12 083	5 907	6 176	4 862	5 142	485	699	331	239	38.1	38.6	98.1	96.9	65.7	33.5	2.0	0.5										
Personnel, training, and labor relations specialists	12 941	6 055	6 886	4 745	5 092	960	1 527	441	438	39.6	34.0	90.8	92.0	47.9	47.5	0.5	0.9										
Buyers and purchasing agents	1 329	785	544	640	409	107	55	456	26	43.8	37.4	92.7	91.7	24.3	21.5	—	—										
Inspectors and compliance officers	1 510	1 019	491	777	459	99	77	39	38	36.9	35.4	84.5	82.5	32.3	26.1	—	—										
Other management related occupations	10 092	6 679	3 413	6 276	2 846	294	414	219	160	45.2	34.9	82.7	95.4	33.8	40.3	1.3	1.3										
Professional specialty occupations	790 376	404 245	386 131	358 912	318 911	32 539	53 439	13 064	16 304	40.8	34.5	93.7	92.4	69.6	49.3	12.9	3.7										
Engineers, architects, and surveyors	4 755	4 111	3 644	3 748	3 567	135	43	121	29	38.1	34.5	95.5	97.5	67.4	50.8	1.8	2.6										
Architects	665	609	56	538	35	38	12	20	2	37.1	31.2	97.5	94.6	75.5	71.4	6.7	7.1										
Engineers	3 879	3 318	561	3 026	3 505	97	31	101	27	38.8	34.3	95.3	97.7	68.2	47.4	1.0	1.4										
Civil engineers	783	760	23	674	117	26	6	18	6	37.5	25.8	90.8	93.9	58.7	47.8	1.3	5.4										
Electrical and electronic engineers	669	520	149	496	118	19	18	35	15	38.2	36.1	90.4	95.3	58.7	40.9	1.0	—										
Mechanical engineers	564	332	232	303	218	10	8	—	—	45.7	26.5	95.8	100.0	61.7	37.5	—	—										
Chemical engineers	396	368	28	341	28	13	—	—	—	40.4	36.5	92.9	100.0	55.4	46.4	3.0	—										
Other engineers	1 467	1 338	129	1 212	124	29	5	48	—	38.2	31.3	99.0	100.0	71.7	72.9	0.4	—										
Surveyors and mapping scientists	211	184	27	184	27	—	—	—	—	32.3	40.3	92.4	100.0	25.0	77.8	—	18.5										
Computer systems analysts and scientists	849	559	290	538	227	13	54	12	6	35.9	32.3	98.7	97.9	66.4	43.1	1.3	—										
Operations and systems researchers and analysts	699	319	380	284	284	30	87	12	12	35.1	32.9	100.0	96.6	77.4	60.0	—	—										
Mathematical scientists	751	199	552	178	485	—	—	48	36	41.7	34.7	95.5	95.7	71.9	38.9	2.5	0.7										
Natural scientists	2 057	1 470	587	1 259	501	139	65	39	14	39.3	35.7	95.2	92.3	72.9	67.3	4.0	2.4										
Chemists, except biochemists	1 192	150	42	1 115	36	13	—	—	—	39.5	35.8	94.7	100.0	86.0	54.8	4.0	—										
Other natural scientists	1 865	1 320	545	1 144	465	126	65	27	10	39.2	35.7	95.3	91.7	71.4	68.3	4.0	2.6										
Health diagnosing occupations	2 524	1 794	730	1 885	581	47	68	114	40	44.9	39.0	99.6	96.4	97.5	87.5	3.7	6.6										
Health assessment and treating occupations	25 804	2 261	23 543	20 555	18 885	278	2 338	94	545	32.7	38.2	94.0	95.8	65.0	51.5	3.4	1.5										
Registered nurses	15 957	394	15 563	13 637	13 637	36	1 483	27	326	34.4	41.3	99.5	97.9	56.1	44.0	—	0.9										
Other health assessment and treating occupations	9 847	1 867	7 980	1 537	6 918	242	855	67	219	32.4	32.8	92.9	91.8	66.8	66.0	4.1	2.6										
Teachers, except postsecondary	155 450	10 085	145 365	7 948	120 156	1 609	20 254	548	6 353	30.1	32.5	87.7	91.0	43.7	37.7	3.0	4.6										
Social scientists and urban planners	8 377	4 748	3 629	4 297	3 243	235	259	189	132	34.3	34.1	98.6	97.9	85.2	81.1	8.6	10.4										
Social and recreation workers	198 813	70 410	128 403	53 378	96 872	12 391	25 554	5 312	6 902	33.8	34.4	93.8	93.3	64.1	57.1	2.6	2.2										
Lawyers and judges	7 367	5 763	1 604	5 293	1 393	308	161	142	75	40.3	32.1	98.9	99.4	85.1	73.2	18.0	4.6										
Writers, artists, entertainers, and athletes	52 436	22 506	29 930	20 753	28 458	1 195	1 027	476	531	33.1	38.0	93.1	93.1	59.0	52.4	4.2	3.2										
Other professional specialty occupations	330 494	280 020	50 474	257 690	45 589	16 159	3 481	6 017	1 629	44.1	39.9	93.6	91.6	72.0	56.2	16.9	6.1										
Technical, sales, and administrative support occupations	481 245	59 919	421 326	48 382	356 702	7 670	49 383	3 985	20 484	36.1	39.3	84.1	90.1	32.3	12.3	1.2	0.3										
Technicians and related support occupations	17 142	7 351	9 791	6 182	7 934	723	1 451	472	477	36.1	33.2	91.6	91.9	41.4	31.8	0.7	0.7										
Health technologists and technicians	5 609	4 763	846	3 759	2 664	122	794	645	479	32.3	32.3	93.5	89.9	46.0	22.2	0.7	0.8										
Licensed practical nurses	2 723	59	2 664	54	2 019	5	545	8	186	36.0	36.0	84.7	86.0	6.8	5.3	—	—										
Other health technologists and technicians	2 886	787	2 099	591	2 019	117	249	41	73	32.2	32.0	94.2	95.0	48.9	43.6	0.8	0.3										
Engineering and science technicians	4 202	2 916	1 286	2 486	1 135	239	130	228	29	31.6	30.7	90.2	93.4	26.5	24.6	0.7	0.9										
Electrical and electronic technicians	340	290	50	263	143	21	7	17	—	33.2	31.1	87.2	93.4	15.5	12.0	—	—										
Industrial and mechanical engineering technicians	42	23	19	16	19	—	—	—	—	39.5	26.4	73.9	100.0	65.2	26.2	—	—										
Drafting and surveying technicians	2 279	1 782	497	1 490	441	153	41	133	8	30.8	29.5	91.0	90.3	20.5	26.2	0.3	1.2										
Other engineering and science technicians	1 541	821	720	717	632	65	82	78	21	32.5	31.6	90.0	96.8	42.3	25.0	1.7	0.7										
Technicians, except health, engineering, and science	7 331	3 589	3 742	3 051	3 040	362	527	195	189	32.5	32.3	92.2	93.8	52.4	46.5	0.7	0.6										
Airplane pilots and navigators	66	57	9	57	9	—	—	—	—	34.8	60.0	100.0	100.0	43.9	100.0	—	—										
Air traffic controllers and broadcast equipment operators	368	233	135	216	90	11	30	19	15	30.6	28.4	78.1	84.4	7.3	5.9	—	—										
Computer programmers	2 077	1 274	803	1 107	620	90	144	64	29	31.5	30.9	97.7	90.2	45.7	39.9	—	—										
Other technicians, except health, engineering, and science	4 820	2 025	2 795	1 671	2 321	261	353	112	145	33.4	32.8	90.1	95.3	62.1	50.2	0.9	0.8										

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Social services, religious and membership organizations																
Both sexes		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
		Total		Black												
		White		Black												
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations																
Salaried																
Self-employed																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Secretaries																
Stenographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adjudicators and investigators																
Data-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Guards																
Other protective service occupations																
Food preparation and service occupations																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automobile mechanics, including body																
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Electricians																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																
Other construction trades																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States																
Social services, religious and membership organizations																
Race																
Total			White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations																
Precision production occupations																
Supervisors, production occupations																
Precision metalworking occupations																
Tool and die makers																
Machinists																
Sheet metal workers																
Other precision metal workers																
Precision textile, apparel, and furnishings machine workers																
Precision food production occupations																
Precision inspectors, testers, and related workers																
Plant and system operators																
Other precision production occupations																
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors																
Machine operators and tenders, except precision																
Metalworking and plastic working machine operators																
Fabricating machine operators, n.e.c.																
Metal and plastic processing and woodworking machine operators																
Printing machine operators																
Textile machine operators																
Textile sewing machine operators																
Laundry and dry cleaning machine operators																
Packaging and filling machine operators																
Furnace, kiln, and oven operators, except food																
Other specified machine operators																
Miscellaneous and not specified machine operators																
Fabricators, assemblers, and hand working occupations																
Welders and cutters																
Soldiers and brazers																
Assemblers																
Hand working occupations																
Production inspectors, testers, samplers, and weighers																
Grocers and sorters, except agricultural																
Other production inspectors, testers, samplers, and weighers																
Transportation and material moving occupations																
Transportation occupations																
Motor vehicle operators																
Truck drivers																
Driver-sales workers																
Other motor vehicle operators																
Rail and water transportation occupations																
Material moving equipment operators																
Supervisors, material moving equipment operators																
Crane, hoist, and winch operators																
Excavating, grading, and dozer machine operators																
Other material moving equipment operators																
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																
Helpers, craft and production																
Construction laborers																
Freight, stock, and material handlers																
Garage and service station occupations, and equipment cleaners																
Hand packers and packagers																
Laborers, except construction																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																	
Other professional and related services																	
Race				Block		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over																	
2 048 263	1 210 111	858 152	1 130 972	793 710	36 220	38 420	33 419	28 315	37.1	32.9	96.0	94.1	70.5	25.6	30.6	9.4	
1 188 613	651 184	237 429	903 477	222 192	17 597	7 867	20 257	5 621	38.4	33.9	98.6	97.3	82.2	58.8	37.2	26.4	
382 115	271 748	110 367	260 036	103 217	4 887	3 531	5 480	2 709	37.4	33.9	98.4	97.3	77.6	44.6	28.6	11.5	
5 617	4 175	1 442	3 966	1 353	63	39	99	53	41.9	35.2	100.0	98.2	82.5	38.6	8.0	4.1	
3 139	2 305	834	2 228	804	20	18	16	12	41.1	33.9	97.9	97.0	65.9	41.0	6.6	5.0	
607	409	198	395	191	5	—	11	—	44.3	33.9	91.2	100.0	66.5	64.6	3.2	—	
4 876	3 211	1 665	2 973	1 512	193	109	87	19	41.2	35.3	96.7	97.2	65.3	41.5	4.1	0.7	
89 793	56 382	33 411	53 292	31 047	1 281	1 424	1 256	1 060	42.8	36.4	97.6	96.8	68.0	33.4	8.5	5.5	
82 460	51 475	30 985	48 571	28 711	1 209	1 400	1 143	993	42.6	35.8	97.6	96.8	68.1	32.7	—	—	
7 333	4 907	2 426	4 721	2 336	72	24	113	67	44.9	44.3	96.1	97.3	67.6	42.5	97.6	75.8	
278 065	205 248	72 817	197 164	68 310	3 325	1 941	4 009	1 565	35.0	32.9	98.7	97.5	80.5	49.8	35.3	14.7	
246 608	185 081	61 527	178 134	57 830	2 617	1 379	3 619	1 354	34.8	32.3	99.0	97.8	82.7	52.7	37.4	15.9	
4 918	2 552	2 366	2 217	2 057	219	231	99	72	40.2	33.6	96.6	94.7	59.9	39.3	6.2	4.1	
2 450	1 520	710	1 430	813	71	89	38	25	43.8	34.8	93.2	93.8	26.7	28.4	3.6	5.6	
3 776	3 588	188	3 403	1 935	101	67	69	—	40.9	30.4	89.1	83.5	23.1	10.6	1.5	—	
20 313	12 507	7 806	11 990	7 475	317	195	184	114	37.0	37.6	98.0	96.3	74.9	34.3	23.1	10.0	
806 498	579 436	127 062	643 441	118 975	12 710	4 336	14 777	2 912	38.8	33.9	98.7	97.4	84.0	71.2	40.6	39.4	
242 213	232 814	9 999	213 365	8 425	4 183	333	4 531	311	39.1	31.1	98.2	98.5	73.4	74.3	17.1	12.5	
66 989	62 492	4 497	58 358	4 158	1 060	103	2 235	185	38.6	31.2	99.4	99.8	85.8	86.7	30.1	19.5	
156 547	152 013	4 334	137 291	3 927	2 824	220	3 726	205	40.0	31.2	98.7	97.8	74.9	74.9	11.3	5.7	
46 307	44 850	1 352	40 151	1 180	859	49	1 174	45	37.7	30.2	99.2	98.4	80.9	72.6	8.4	3.3	
20 218	19 932	846	18 226	458	417	37	415	10	39.6	29.4	98.8	95.9	69.3	53.7	9.6	7.2	
3 089	2 875	214	2 728	161	57	37	71	18	44.4	28.6	97.7	97.2	61.3	32.7	13.6	2.8	
14 082	13 768	314	12 530	270	316	36	351	15	40.7	29.8	96.2	92.0	64.3	66.6	15.6	10.8	
72 756	70 588	2 168	63 656	1 858	1 175	91	1 715	117	41.1	32.6	98.9	98.7	75.3	67.4	12.7	6.4	
18 677	18 309	368	17 716	340	299	10	570	15	33.5	28.4	89.9	92.1	19.1	28.3	20.9	11.1	
5 239	3 983	1 256	3 725	1 099	85	36	133	40	34.2	30.7	98.5	97.1	73.2	69.4	2.5	2.9	
2 721	2 227	494	2 109	441	58	25	30	6	43.1	33.0	98.1	98.8	69.6	74.6	8.3	3.2	
3 968	2 880	1 088	2 708	1 022	63	49	37	6	35.8	31.6	97.5	98.7	90.6	75.0	8.3	3.5	
21 252	17 788	3 464	16 553	3 065	414	104	201	127	38.3	31.0	99.0	98.0	88.8	80.9	16.3	4.7	
4 086	3 134	952	2 789	784	93	53	47	51	37.2	32.3	99.2	98.0	87.5	81.9	7.2	3.2	
17 166	14 654	2 512	13 764	2 281	321	71	154	76	38.6	30.6	99.0	98.0	89.0	80.6	18.3	5.3	
1 411	1 151	260	1 072	235	28	15	22	13	41.3	33.7	99.7	98.1	96.7	85.4	25.5	18.1	
2 069	1 456	613	1 415	423	30	138	6	4	33.6	35.8	95.2	97.8	74.8	56.9	24.8	6.3	
1 055	119	936	119	830	74	—	—	—	33.1	39.6	93.0	99.4	63.9	47.0	18.5	1.6	
1 014	337	677	296	593	30	64	6	9	36.4	32.9	95.3	95.7	78.6	70.3	27.0	12.9	
3 575	958	2 617	861	2 367	63	149	50	82	35.6	38.5	94.3	93.9	63.2	49.9	16.7	31.8	
12 572	7 962	4 610	7 526	4 271	224	211	188	76	38.2	36.3	99.2	97.2	91.5	86.0	31.3	33.8	
3 158	1 398	1 760	1 172	1 423	183	280	82	70	35.6	32.6	96.0	94.8	72.8	64.7	26.3	8.2	
373 577	331 505	42 072	322 778	39 385	5 193	1 750	4 677	1 096	38.7	31.9	99.7	98.4	97.6	85.3	56.8	25.0	
119 858	69 484	50 374	64 756	48 280	1 943	918	2 543	770	39.0	38.6	95.2	96.6	53.9	58.8	57.5	70.1	
14 885	6 830	8 055	6 401	7 539	243	328	284	199	37.4	34.2	96.4	97.0	81.3	70.2	17.0	2.6	
793 071	192 895	600 176	172 197	555 577	10 692	26 912	9 102	21 614	31.7	32.3	91.8	93.8	32.7	12.9	7.4	3.0	
172 956	125 096	47 860	112 848	43 219	5 104	2 571	5 777	1 550	31.2	29.9	93.2	96.0	30.6	43.9	5.0	2.4	
1 765	844	941	715	805	40	90	51	46	33.7	32.3	96.6	94.9	67.5	47.6	5.5	1.7	
774	774	155	60	125	10	26	19	18	35.0	35.1	100.0	87.7	24.3	—	—	—	
1 556	770	786	655	680	30	64	32	28	33.6	31.8	96.2	96.3	71.7	57.0	6.0	0.8	
117 727	100 865	16 862	91 240	14 918	4 029	969	4 926	817	30.9	28.1	93.0	94.4	23.0	29.9	4.0	2.6	
5 288	4 823	465	4 332	365	214	94	173	28	37.9	31.8	93.2	92.0	15.0	11.2	2.8	2.8	
1 310	1 258	52	1 125	50	72	2	22	—	42.3	25.7	95.7	100.0	30.2	9.6	24.5	—	
94 452	81 649	12 783	73 896	11 481	3 077	514	4 367	654	30.1	27.5	93.3	94.9	21.3	28.3	4.1	3.2	
16 677	13 115	3 562	11 887	3 022	666	359	364	135	33.7	29.6	93.7	92.8	35.4	38.3	2.2	0.8	
53 444	23 387	30 057	20 893	27 496	1 035	1 512	800	687	32.2	30.7	93.7	96.9	62.2	51.7	8.9	2.3	
180	173	7	166	7	—	—	—	—	38.6	25.0	97.1	100.0	38.7	—	—	—	
327	249	78	238	66	11	4	—	—	37.1	32.3	100.0	100.0	35.3	28.2	7.6	2.0	
7 744	4 980	2 764	4 490	2 400	184	160	131	68	30.3	29.6	98.5	98.0	60.3	52.1	1.9	2.0	
45 193	17 985	27 208	15 999	25 023	840	1 348	669	619	32.8	30.8	92.2	96.8	63.3	51.7	11.0	2.3	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Other professional and related services															
Race															
White															
Black															
Spanish origin ¹															
Median age															
Percent high school graduates															
Percent completed 4 or more years of college															
Percent self-employed															
Both sexes															
Male															
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¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con. [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Other professional and related services										Percent self-employed						
	Total		Race		Block		Spanish origin ¹		Median age				Percent high school graduates		Percent completed 4 or more years of college		
			White		Black												
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States																	
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extrusive occupations	234	227	7	212	15	—	—	—	33.0	25.6	28.6	28.6	6.2	28.6	6.2	28.6	28.6
Precision production occupations	10 450	9 230	1 220	8 411	501	72	288	52	40.2	26.7	3.7	5.4	3.7	26.7	3.7	5.4	5.4
Supervisors, production occupations	3 566	3 032	334	2 797	162	26	99	24	41.7	33.2	2.7	—	2.7	33.2	2.7	—	—
Precision metalworking occupations	2 235	2 140	95	1 944	81	8	80	7	37.0	29.7	9.5	11.6	9.5	29.7	9.5	11.6	11.6
Tool and die makers	208	208	—	202	39	—	—	—	34.3	11.5	0.5	—	0.5	11.5	0.5	—	—
Machinists	1 421	1 382	39	1 252	7	—	59	—	37.1	76.9	2.2	—	2.2	76.9	2.2	—	—
Sheet metal workers	227	227	—	215	12	—	7	—	42.6	8.8	—	—	—	8.8	—	—	—
Other precision metal workers	379	323	56	275	42	8	14	7	33.8	64.3	5.3	19.6	5.3	33.8	5.3	19.6	19.6
Precision textile, apparel, and furnishings machine workers	19	19	109	7	12	14	—	—	28.8	46.2	—	24.8	—	28.8	—	24.8	24.8
Precision food production occupations	59	48	11	27	21	—	—	—	41.3	56.3	—	—	—	41.3	—	—	—
Precision inspectors, testers, and related workers	391	356	35	349	26	4	24	—	39.0	45.3	2.0	—	2.0	39.0	2.0	—	—
Plant and system operators	3 273	3 115	158	2 786	202	4	71	10	41.4	36.9	4.1	—	4.1	41.4	4.1	—	—
Other precision production occupations	798	520	239	499	6	14	14	—	34.2	24.8	12.3	10.1	12.3	34.2	12.3	10.1	10.1
Operators, fabricators, and laborers																	
Machine operators, assemblers, and inspectors	29 118	23 390	5 728	19 743	4 593	869	1 664	354	30.6	73.0	2.5	2.9	2.5	30.6	2.5	2.9	2.9
Machine operators and tenders, except precision	13 986	9 975	4 011	8 381	3 291	519	725	297	31.9	74.7	3.5	3.2	3.5	31.9	3.5	3.2	3.2
Metalworking and plastic working machine operators	8 581	5 882	2 699	4 800	1 735	344	472	199	30.9	73.6	1.5	—	1.5	30.9	1.5	—	—
Fabricating machine operators, n.e.c.	439	390	49	305	75	14	26	10	37.1	83.7	13.6	—	13.6	37.1	13.6	—	—
Metal and plastic processing and woodworking machine operators	26	20	6	20	6	—	3	—	26.3	100.0	—	—	—	26.3	—	—	—
Printing machine operators	302	270	32	218	37	6	32	—	32.7	17.4	4.4	—	4.4	32.7	4.4	—	—
Textile machine operators	1 834	1 220	614	1 027	540	46	94	32	32.1	10.2	9.6	0.3	9.6	32.1	9.6	0.3	0.3
Textile sewing machine operators	44	37	7	23	14	—	—	—	32.4	40.0	—	—	—	32.4	—	—	—
Laundry and dry cleaning machine operators	70	12	58	17	2	35	2	—	37.5	57.8	10.3	—	10.3	37.5	10.3	—	—
Packaging and filling machine operators	78	32	46	32	33	13	—	—	25.0	56.5	56.3	—	56.3	25.0	56.3	—	—
Furnace, kiln, and oven operators, except food	66	30	36	30	36	—	—	—	23	36.7	23.3	—	23.3	23	23.3	—	—
Other specified machine operators	175	135	748	129	38	—	—	—	37.2	30.4	10.9	—	10.9	37.2	10.9	—	—
Miscellaneous and not specified machine operators	2 089	1 341	1 097	690	129	40	150	24	27.8	81.3	9.3	6.4	9.3	27.8	9.3	6.4	6.4
Fabricators, assemblers, and hand working occupations	3 458	2 335	1 103	1 919	304	190	165	133	30.1	74.1	11.5	2.0	11.5	30.1	11.5	2.0	2.0
Welders and cutters	3 606	2 521	1 085	2 176	862	225	214	81	30.9	58.8	6.3	4.5	6.3	30.9	6.3	4.5	4.5
Solders and brazers	1 208	1 190	18	1 013	145	—	123	—	32.8	72.6	4.7	22.2	4.7	32.8	4.7	22.2	22.2
Assemblers	51	32	19	28	—	—	—	—	25	41.7	—	—	—	25	—	—	—
Hand working occupations	2 110	1 210	900	1 049	694	73	135	81	28.8	29.6	16.9	1.8	16.9	28.8	16.9	1.8	1.8
Production inspectors, testers, samplers, and weighers	237	102	135	95	7	5	91	—	34.3	74.5	27.5	21.5	27.5	34.3	27.5	21.5	21.5
Graders and sorters, except agricultural	1 799	1 572	227	1 405	178	35	39	17	38.5	87.0	0.6	2.6	0.6	38.5	0.6	2.6	2.6
Other production inspectors, testers, samplers, and weighers	89	33	56	33	42	—	—	—	25	28.2	—	—	—	25	—	—	—
Transportation and material moving occupations																	
Transportation occupations	3 957	3 561	396	2 771	653	54	188	15	38.4	31.2	8.8	1.5	8.8	38.4	8.8	1.5	1.5
Motor vehicle operators	2 816	2 491	325	1 917	439	54	154	6	37.5	31.6	5.6	5.8	5.6	37.5	5.6	5.8	5.8
Truck drivers	2 348	2 238	310	1 695	246	54	154	6	37.5	32.6	3.9	1.3	3.9	37.5	3.9	1.3	1.3
Driver-sales workers	1 792	1 615	179	1 256	158	21	98	—	34.1	29.4	3.3	3.4	3.3	34.1	3.3	3.4	3.4
Other motor vehicle operators	47	45	2	43	2	—	7	—	33.1	40.0	100.0	—	100.0	33.1	100.0	—	—
Rail and water transportation occupations	709	580	129	396	86	33	49	6	48.2	36.4	58.9	—	58.9	48.2	58.9	—	—
Material moving equipment operators	268	253	15	222	15	—	34	9	39.5	53.3	20.9	—	20.9	39.5	20.9	—	—
Supervisors, material moving equipment operators	1 141	1 070	71	854	71	—	—	—	52.2	77.5	35.1	—	35.1	52.2	35.1	—	—
Crane, hoist, and winch operators	57	57	—	44	13	—	—	—	43.5	49.4	4.4	—	4.4	43.5	4.4	—	—
Excavating, grading, and dozer machine operators	168	160	8	146	14	—	—	—	32.6	37.5	100.0	—	100.0	32.6	100.0	—	—
Other material moving equipment operators	106	88	18	77	5	—	25	—	39.0	64.4	3.0	—	3.0	39.0	3.0	—	—
Handlers, equipment cleaners, helpers, and laborers																	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	11 175	9 854	1 321	8 591	970	296	751	42	26.8	28.5	67.9	2.4	67.9	26.8	67.9	2.4	2.4
Helpers, craft and production	283	243	40	225	18	5	10	—	41.5	41.7	68.3	—	68.3	41.5	68.3	—	—
Construction laborers	5 237	4 948	289	4 643	175	40	302	5	25	25.4	76.2	—	76.2	25	76.2	—	—
Freight, stock, and material handlers	626	590	36	502	21	590	36	—	31.5	26.4	71.5	—	71.5	31.5	26.4	—	—
Garage and service station occupations, and equipment cleaners	444	369	75	291	69	11	27	—	30.3	28.9	61.8	—	61.8	30.3	28.9	—	—
Hand packers and packagers	107	68	39	56	32	12	—	—	28.3	25.7	45.6	—	45.6	28.3	25.7	—	—
Labors, except construction	397	243	154	179	46	6	41	—	32.3	35.0	13.2	—	13.2	32.3	13.2	—	—
Labors, except construction	4 081	3 393	688	2 695	532	218	335	31	30.9	6.4	8.1	—	8.1	30.9	6.4	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Public administration												
United States												
Employed persons 16 years and over												
Managerial and professional specialty occupations												
Executive, administrative, and managerial occupations												
Officials and administrators, public administration												
Financial managers												
Managers, marketing, advertising, and public relations												
Administrators, education and related fields												
Managers, medicine and health												
Other specified managers												
Managers and administrators, n.e.c.												
Self-employed												
Management related occupations												
Accountants and auditors												
Personnel, training, and labor relations specialists												
Buyers and purchasing agents												
Inspectors and compliance officers												
Other management related occupations												
Professional specialty occupations												
Engineers, architects, and surveyors												
Architects												
Engineers												
Civil engineers												
Electrical and electronic engineers												
Industrial engineers												
Mechanical engineers												
Other engineers												
Surveyors and mapping scientists												
Computer systems analysts and scientists												
Operations and systems researchers and analysts												
Mathematical scientists												
Natural scientists												
Chemists, except biochemists												
Other natural scientists												
Health diagnosing occupations												
Health assessment and treating occupations												
Registered nurses												
Other health assessment and treating occupations												
Teachers, except postsecondary												
Social scientists and urban planners												
Lawyers and judges												
Writers, artists, entertainers, and athletes												
Other professional specialty occupations												
Technical, sales, and administrative support occupations												
Technicians and related support occupations												
Health technologists and technicians												
Licensed practical nurses												
Other health technologists and technicians												
Engineering and science technicians												
Electrical and electronic technicians												
Industrial and mechanical engineering technicians												
Drafting and surveying technicians												
Other engineering and science technicians												
Technicians, except health, engineering, and science												
Airplane pilots and navigators												
Air traffic controllers and broadcast equipment operators												
Computer programmers												
Other technicians, except health, engineering, and science												
Persons of Spanish origin may be of any race.												
Percent completed 4 or more years of college												
Percent high school graduates												
Median age												
Spanish origin ¹												
Black												
White												
Total												
Both sexes												
Male												
Female												
Percent self-employed												
Male												
Female												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Public administration											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male						
Technical, sales, and administrative support occupations—Con.												
Sales occupations	33 359	14 461	18 898	12 900	14 680	998	513	1 182	44.0	38.9	90.5	83.7
Supervisors and proprietors, sales occupations	3 041	2 101	940	1 808	785	217	59	4	46.3	42.0	87.8	89.8
Managers	3 041	2 101	940	1 808	785	217	59	4	46.3	42.0	87.8	89.8
Self-employed	7 390	5 998	1 392	5 612	1 786	235	117	73	44.0	39.3	97.0	96.0
Sales representatives, finance and business services	389	235	154	192	65	18	20	—	46.9	45.0	94.5	96.8
Sales representatives, commodities, except retail	22 237	5 893	16 344	5 068	12 528	523	317	1 086	42.9	38.8	84.5	82.2
Sales, brokers, retail and personal services	13 723	2 106	11 617	1 717	8 842	268	91	831	44.1	38.8	84.2	82.4
Cashiers	8 514	3 787	4 727	3 351	3 386	255	226	255	42.4	38.2	81.7	84.6
Other sales occupations, retail and personal services	302	234	68	219	55	5	—	19	40.5	32.3	97.9	86.8
Sales related occupations												
Administrative support occupations, including clerical	1 599 328	371 353	1 227 975	295 997	954 071	56 391	21 309	63 779	40.3	34.8	89.0	91.4
Supervisors, administrative support occupations	188 295	116 961	71 334	100 039	55 072	13 037	5 189	2 941	45.5	42.4	89.7	93.5
Computer equipment operators	39 185	15 966	23 219	12 630	11 586	2 432	862	1 570	34.6	33.0	95.5	93.0
Secretaries, stenographers, and typists	526 482	14 796	511 686	3 845	408 873	2 452	1 116	27 222	36.1	33.2	89.7	94.3
Secretaries and typists	333 795	4 940	328 855	3 845	274 246	708	301	16 144	37.3	33.9	88.2	93.3
Other information clerks	192 687	9 856	182 831	7 289	134 627	1 744	815	11 078	35.6	31.9	90.5	91.3
Other information clerks	27 086	2 570	24 516	14 108	10 408	437	4	1 828	40.5	34.5	85.0	85.7
File clerks	56 594	18 395	38 199	14 108	30 306	3 036	1 278	2 004	31.9	34.5	91.1	90.6
Other records processing occupations, except financial	33 733	7 452	28 081	4 875	18 012	2 268	511	1 983	30.2	29.7	84.7	77.0
Bookkeepers, accounting, and auditing clerks	30 267	7 483	22 784	5 709	16 075	1 362	4	1 224	38.7	36.6	86.5	93.5
Payroll and timekeeping clerks	83 095	16 513	66 582	13 849	52 733	1 522	601	2 445	38.1	40.3	94.9	90.5
Other financial records processing occupations	16 738	3 502	13 236	2 055	10 640	372	209	678	34.7	38.2	89.9	92.2
Telephone operators	17 850	1 136	16 714	2 773	4 904	348	182	250	40.4	38.6	92.8	92.3
Mail and message distributing occupations	21 172	1 136	20 036	7 799	7 483	248	139	461	33.1	42.9	76.5	82.6
Production coordinators and expeditors	23 496	12 337	11 159	6 710	6 995	3 825	646	483	32.0	32.9	74.8	81.4
Traffic, shipping, and receiving clerks	6 689	3 554	3 135	2 605	2 200	1 204	325	216	42.2	36.6	89.2	91.5
Stock and inventory clerks	40 634	21 773	18 861	15 892	13 966	4 474	1 793	816	42.5	39.4	90.4	88.2
Other material recording, scheduling, and distributing clerks	7 181	3 139	4 042	3 472	2 746	444	140	166	40.3	33.7	80.0	88.2
Adjusters and investigators	20 887	4 002	16 885	2 472	34 191	2 693	1 187	2 114	35.5	34.7	96.4	95.9
Date-entry keyers	40 887	2 807	38 080	1 999	26 487	565	302	2 313	30.7	31.2	92.6	92.1
Other administrative support occupations	363 989	83 078	280 911	63 575	214 581	14 865	4 915	15 022	38.2	36.8	87.9	88.9
Service occupations	1 141 732	957 322	184 410	819 264	123 127	105 610	43 274	11 387	36.0	40.2	85.2	64.0
Private household occupations	915 363	829 486	85 877	735 342	67 334	72 098	31 973	3 551	35.7	37.3	90.4	78.7
Protective service occupations	96 323	57 790	38 533	46 612	31 352	8 730	2 829	1 438	43.0	43.8	69.9	65.4
Guard	819 040	771 696	47 344	688 730	35 982	63 368	29 144	2 113	35.4	43.4	91.9	89.6
Other protective service occupations	226 369	127 836	98 533	83 922	55 793	33 512	11 301	7 836	39.6	43.4	52.1	51.1
Food preparation and service occupations	32 599	10 725	21 874	6 237	13 362	3 449	1 040	1 134	37.8	46.9	60.0	47.3
Health service occupations	23 521	5 280	18 241	3 794	10 589	1 192	302	1 436	34.6	41.2	81.0	65.8
Cleaning and building service occupations, except household	134 712	101 165	33 547	67 045	17 070	26 266	8 921	2 921	41.4	45.4	47.9	36.2
Personal service occupations	35 537	10 666	24 871	6 846	14 772	2 605	1 038	2 345	32.1	39.0	69.8	63.9
Farming, forestry, and fishing occupations	55 512	50 704	4 808	38 610	3 493	7 385	5 728	330	34.1	25.0	56.6	62.6
Precision production, craft, and repair occupations	252 812	240 450	12 362	199 971	8 776	25 456	17 694	654	41.9	38.7	73.3	73.9
Mechanics and repairers	128 105	124 216	3 889	105 546	2 963	11 294	9 401	268	40.6	38.1	75.5	79.3
Supervisors, mechanics, and repairers	8 407	8 269	138	7 412	82	408	454	268	48.2	49.4	82.3	88.4
Automobile mechanics, including body	28 349	27 970	379	23 003	123	3 096	2 350	13	38.3	37.1	67.0	67.0
Industrial machinery repairers	8 805	6 618	187	7 417	123	818	532	—	41.8	33.7	68.0	86.1
Electronic repairers, communications and industrial equipment	12 930	12 367	563	10 728	454	853	754	10	40.1	37.9	90.6	84.5
Heating, air conditioning, and refrigeration mechanics	5 455	5 404	51	4 601	38	5 647	4 878	22	43.2	58.3	73.3	100.0
Other mechanics and repairers	64 159	61 588	2 571	52 385	1 948	5 672	4 833	214	39.7	37.5	76.4	78.5
Construction trades	71 236	68 703	2 533	54 741	1 776	8 925	4 826	143	42.5	30.9	65.7	65.0
Supervisors, construction occupations	16 613	16 092	521	12 052	328	2 533	1 299	48	46.6	35.4	73.7	73.9
Carpenters	17 840	17 159	681	14 614	504	1 677	841	31	41.8	51.2	56.7	65.8
Painters, construction and maintenance	10 757	10 109	648	7 100	507	2 129	1 180	55	40.5	28.9	80.2	61.5
Plumbers, pipefitters, and steamfitters	9 685	9 557	128	7 636	82	1 132	757	39	42.8	27.2	66.3	89.8
Other construction trades	7 973	7 626	347	6 008	203	1 223	424	9	38.3	28.4	58.1	63.7
Percent completed 4 or more years of college												
Male	37.9	35.6	37.9	35.6	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
Female	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
Percent self-employed												
Male	—	—	—	—	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Race										Public administration		Percent self-employed	
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Both sexes	Male	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Extraction occupations	582	522	440	52	52	8	38	—	44.6	46.1	66.7	70.0	4.8	28.3
Precision production occupations	52 889	47 009	39 244	3 985	5 185	1 401	3 429	243	44.8	42.3	78.7	74.2	9.5	14.3
Supervisors, production occupations	19 481	16 598	13 842	2 107	2 108	698	877	67	46.8	41.9	81.3	89.7	16.1	23.5
Precision metalworking occupations	16 408	15 637	13 180	603	1 345	154	1 648	64	46.7	39.5	76.3	68.0	2.9	1.6
Tool and die makers	592	576	531	16	14	—	34	—	57.7	57.2	82.6	88.2	3.5	—
Mechanists	7 829	7 546	6 432	283	636	69	560	16	41.0	33.2	78.4	68.2	2.8	2.1
Sheet metal workers	5 724	5 348	4 457	376	464	61	934	41.4	41.3	74.0	73.7	1.6	—	—
Other precision metal workers	2 263	2 167	1 760	68	231	24	120	—	40.8	48.1	73.3	56.3	7.6	0.7
Precision textile, apparel, and furnishings machine workers	1 743	1 338	341	357	132	370	39	56	47.6	51.0	62.1	41.4	7.4	—
Precision food production occupations	8 624	8 347	7 965	185	241	60	105	16	46.6	42.1	67.5	58.3	8.4	—
Precision inspectors, testers, and related workers	3 624	3 347	2 847	187	241	83	194	3	43.0	43.0	67.5	58.3	8.1	18.7
Plant and system operators	8 318	8 136	6 846	109	999	75	230	3	43.0	43.0	67.5	58.3	8.1	18.7
Other precision production occupations	1 945	1 580	1 228	280	210	6	169	31	41.6	35.8	76.6	69.0	10.7	25.0
Manufacturing occupations	224 470	194 286	135 421	19 383	45 744	8 678	15 987	1 703	39.6	35.7	58.0	64.9	3.7	5.2
Machine operators, assemblers, and inspectors	68 090	55 050	42 452	8 639	9 293	3 377	15 987	1 703	39.6	35.7	58.0	64.9	3.7	5.2
Machine operators and tenders, except precision	43 664	34 580	25 874	5 816	6 675	2 442	2 494	486	40.0	38.0	69.1	68.8	4.8	5.6
Metalworking and plastic working machine operators	1 610	1 285	1 037	269	176	49	64	19	36.6	39.2	74.5	70.5	12.9	9.2
Fabricating machine operators, n.e.c.	251	222	202	25	16	4	42	5	47.4	33.6	70.7	55.2	—	20.7
Metal and plastic processing and woodworking machine operators	2 718	2 416	1 713	225	489	74	357	35	45.7	39.9	65.6	60.3	2.6	2.6
Printing machine operators	7 413	5 575	3 945	1 329	1 336	423	330	87	38.7	35.3	84.2	83.7	4.6	4.0
Textile machine operators	522	429	366	51	27	7	—	4	44.3	48.2	62.4	14.7	23.7	2.6
Textile sewing machine operators	371	280	26	127	54	118	7	23	34.8	47.1	39.6	32.1	6.6	—
Laundry and dry cleaning machine operators	1 041	416	307	350	89	248	22	30	39.0	47.0	63.5	42.6	7.0	1.0
Packaging and filling machine operators	290	151	64	116	72	21	322	13	47.6	34.2	58.9	54.0	4.0	—
Furnace, kiln, and oven operators, except food	5 987	5 894	4 980	88	594	5	322	—	41.1	48.6	73.9	65.6	4.0	5.4
Other specified machine operators	5 815	4 062	3 010	759	376	36	362	113	36.8	34.1	64.8	79.4	7.0	8.4
Miscellaneous and not specified machine operators	17 646	14 375	10 524	1 991	3 063	1 117	988	157	40.1	37.7	63.2	71.4	4.1	6.9
Fabricators, assemblers, and hand working occupations	14 907	12 783	9 872	1 444	1 916	517	1 346	138	38.5	33.0	65.8	64.3	3.0	3.7
Welders and cutters	7 257	7 046	5 628	137	803	62	677	13	37.8	27.7	62.6	64.9	1.8	—
Solders and brazers	152	107	67	25	17	12	23	6	34.8	37.1	80.4	62.2	14.0	—
Assemblers	5 847	4 288	3 024	1 034	951	417	573	108	37.7	33.5	68.6	65.3	3.7	3.4
Hand working occupations	1 651	1 342	1 153	248	145	26	73	11	43.6	33.7	73.0	58.9	5.7	8.1
Production inspectors, testers, samplers, and weighers	9 519	7 687	6 706	1 379	702	418	417	60	45.0	36.1	61.5	81.0	16.1	15.7
Graders and sorters, except agricultural	1 546	950	813	479	94	97	47	28	44.5	34.7	63.7	74.0	10.0	9.2
Other production inspectors, testers, samplers, and weighers	7 973	6 737	5 893	900	608	321	370	32	45.0	36.6	84.0	84.4	17.0	18.9
Fabricators, assemblers, and hand working occupations	76 519	69 792	48 140	4 582	17 697	1 806	5 235	339	43.4	38.4	51.9	62.1	2.5	2.6
Transportation occupations	36 739	30 970	24 065	4 221	13 878	1 861	3 737	281	43.4	38.4	51.9	62.1	2.5	2.6
Motor vehicle operators	34 544	28 174	21 435	4 068	13 660	1 861	3 737	281	43.4	38.4	51.9	62.1	2.5	2.6
Truck drivers	38 586	36 466	24 505	4 409	10 198	585	2 850	115	42.8	39.8	47.0	57.6	1.6	2.4
Driver-sales workers	15 293	11 481	7 660	2 119	3 418	1 017	981	170	41.6	38.5	57.9	42.2	5.1	4.3
Other motor vehicle operators	2 585	2 416	2 120	153	318	12	77	6	46.9	41.6	59.3	49.8	4.8	2.3
Rail and water transportation occupations	19 780	19 202	14 075	361	3 819	165	1 498	48	43.5	35.4	54.5	74.7	2.4	10.7
Material moving occupations	1 602	1 497	1 110	23	317	—	84	—	48.0	48.0	84.0	100.0	10.1	12.0
Supervisors, material moving equipment operators	1 497	1 397	1 084	23	335	—	84	—	48.0	48.0	84.0	100.0	10.1	12.0
Crate, basket and wheeled equipment operators	2 754	2 722	2 044	34	335	—	125	—	48.0	48.0	84.0	100.0	10.1	12.0
Excavating, grading, and dozer machine operators	14 915	14 394	10 337	312	3 020	157	1 219	48	43.2	38.3	36.1	75.0	0.8	—
Other material moving equipment operators	79 863	69 444	44 829	6 162	18 754	3 495	6 495	680	34.4	32.8	54.5	60.6	3.2	4.9
Handlers, equipment cleaners, helpers, and laborers	893	698	581	122	96	73	—	—	45.9	37.1	81.8	84.6	27.5	28.7
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	4 902	4 301	2 964	411	877	261	437	52	30.0	39.0	63.6	65.3	3.2	4.0
Helpers, craft and production	5 827	5 527	3 793	188	1 257	373	427	14	34.1	25.0	54.5	58.3	3.9	8.0
Construction laborers	7 566	6 772	3 871	406	2 355	313	576	76	33.7	35.2	50.1	60.5	3.6	1.7
Freight, stock, and material handlers	3 250	3 007	1 834	138	835	70	299	31	33.6	29.0	53.5	44.9	1.0	2.9
Garage and service station handlers, and equipment cleaners	5 100	3 643	2 106	921	1 244	461	512	110	40.8	39.2	60.3	63.7	2.2	2.7
Hand packers and packagers	32 325	45 376	29 696	3 966	11 970	2 234	4 244	390	34.5	31.4	53.8	59.4	2.9	5.0
Laborers, except construction														

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980

United States

Employed males 16 years and over

Managerial and professional specialty occupations	24 773	25 248	16 718	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Executive, administrative, and managerial occupations	25 671	26 222	16 933	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Officials, administrative, and public administration	26 169	27 460	18 563	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Financial managers	26 832	27 100	18 974	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Managers, marketing, advertising, and public relations	28 616	28 863	19 974	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Administrators, education and related fields	23 703	24 051	18 840	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Managers, medicine and health	25 704	26 413	18 319	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other specialized managers	22 370	22 938	16 472	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Managers and administrators, n.e.c.	27 589	28 214	16 284	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Salaries	28 404	29 050	16 417	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Self-employed	20 980	21 336	15 089	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Management related occupations	21 510	21 937	15 876	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Accountants and auditors	21 532	21 976	15 876	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Personnel, training, and labor relations specialists	21 101	21 770	15 465	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Buyers and purchasing agents	19 607	19 823	14 538	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Inspectors and compliance officers	17 857	18 043	13 591	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other management related occupations	24 889	25 327	16 665	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Professional specialty occupations	23 739	24 102	16 510	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Engineers, architects, and surveyors	24 534	24 751	17 234	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Architects	23 721	24 123	16 526	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Engineers	24 736	24 712	18 586	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Civil engineers	24 405	24 702	18 798	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Electrical and electronic engineers	24 405	24 702	18 798	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Industrial engineers	22 132	22 778	16 083	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Mechanical engineers	24 794	24 990	19 590	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other engineers	26 045	26 334	19 524	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Surveyors and mapping scientists	16 385	16 593	9 404	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Computer systems analysts and scientists	23 405	23 600	16 510	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Operations and systems researchers and analysts	23 584	23 797	16 510	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Mathematical scientists	25 085	25 528	17 804	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Natural scientists	22 964	23 291	16 698	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Chemists, except biochemists	22 063	22 416	16 698	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other natural scientists	23 399	23 691	16 698	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Health diagnosing occupations	50 669	50 884	41 361	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Health assessment and treating occupations	18 098	18 525	13 609	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Registered nurses	16 589	16 911	13 904	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other health assessment and treating occupations	18 522	18 952	13 474	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Teachers, except postsecondary	15 894	16 109	13 887	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Social scientists and urban planners	24 568	24 906	18 788	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Social and recreation workers	14 099	14 643	12 330	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Lawyers and judges	37 117	37 525	25 772	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Writers, artists, entertainers, and athletes	16 896	17 156	14 023	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other professional specialty occupations	16 510	16 796	13 144	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Technical, sales, and administrative support occupations	16 768	17 290	12 038	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Technicians and related support occupations	17 326	17 669	13 963	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Health technicians and technicians	13 697	13 907	11 981	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Licensed practical nurses	10 912	10 949	10 724	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other health technicians and technicians	13 973	14 180	12 190	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Engineering and science technicians	16 326	16 555	13 862	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Electrical and electronic technicians	16 837	17 031	15 344	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Industrial and mechanical engineering technicians	19 243	19 630	14 442	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Drafting and surveying technicians	14 985	15 156	12 546	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other engineering and science technicians	17 029	17 334	13 761	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Technicians, except health, engineering, and science	19 680	20 112	15 450	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Airplane pilots and navigators	36 254	36 466	23 570	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Air traffic controllers and broadcast equipment operators	19 449	19 716	16 647	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Computer programmers	17 967	18 121	16 570	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Other technicians, except health, engineering, and science	16 535	16 828	14 016	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901

*Persons of Spanish origin may be of any race.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Total, all industries			Agriculture, forestry, and fisheries			Mining			Construction, total		
	Race			Race			Race			Race		
	Total	White	Black	Total	White	Black	Total	White	Black	Total	White	Black
United States												
Employed males 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations	18 412	18 830	11 343	15 462	15 711	8 138	11 036	24 276	16 574	20 908	21 108	14 058
Supervisors and proprietors, sales occupations	19 401	19 908	13 565	20 156	19 715	8 005	12 985	27 804	27 804	23 284	23 590	16 305
Salaried	20 377	20 718	15 645	18 779	18 158	8 005	12 985	26 872	26 872	23 284	23 590	16 305
Self-employed	17 682	17 682	12 836	25 519	25 702	8 005	11 659	35 898	35 898	19 831	20 190	5 870
Sales representatives, finance and business services	24 220	24 619	14 666	15 932	16 094	10 131	11 485	25 287	25 287	20 637	20 808	14 647
Sales representatives, commodities, except retail	22 022	22 275	14 880	14 912	15 258	8 735	11 485	24 076	24 148	28 776	28 950	17 993
Sales workers, retail and personal services	11 357	11 644	8 321	9 192	9 470	5 265	6 709	17 268	18 172	11 805	11 850	7 948
Cashiers	7 719	7 839	7 060	6 829	6 975	4 479	6 608	7 347	7 347	11 953	11 661	1 205
Other sales occupations, retail and personal services	12 077	12 344	8 870	10 381	10 431	9 885	6 857	19 747	20 900	11 759	11 905	4 140
Sales related occupations	17 958	18 320	9 538	22 536	22 536	—	—	24 006	24 006	12 752	12 601	9 205
Administrative support occupations, including clerical	14 355	14 846	11 924	12 535	12 959	7 148	11 257	18 221	18 581	15 308	15 742	12 972
Supervisors, administrative support occupations	20 515	21 002	16 688	17 201	17 704	11 340	13 037	25 244	26 355	20 577	21 054	13 207
Computer equipment operators	14 203	14 613	12 227	16 548	16 868	10 831	16 296	17 941	18 823	14 823	15 084	12 989
Secretaries, stenographers, and typists	13 504	13 926	9 488	19 133	19 859	—	16 547	17 922	18 941	15 981	16 099	12 999
Stenographers and typists	12 242	13 348	8 548	7 515	8 118	—	1 005	17 115	17 857	11 812	12 126	8 396
Receptionists	7 550	7 829	7 349	6 587	6 587	6 005	1 005	18 344	18 344	7 671	7 399	3 313
Other information clerks	12 147	12 492	7 931	7 241	7 233	2 431	6 547	16 909	16 909	11 165	11 283	7 587
Other records processing occupations, except financial	10 790	11 558	7 956	9 025	9 368	6 452	12 901	16 882	16 882	10 855	11 585	8 585
Bookkeepers, accounting, and auditing clerks	11 693	12 156	9 556	9 157	9 323	6 472	12 494	17 172	17 172	13 805	14 123	10 621
Payroll and timekeeping clerks	13 289	13 589	11 073	12 451	12 523	13 003	20 368	22 427	22 427	14 488	14 554	12 132
Other financial records processing occupations	14 752	15 087	10 830	13 612	13 730	—	10 405	20 789	20 789	13 199	13 199	10 336
Telephone operators	11 271	11 777	9 364	9 601	9 797	5 865	9 512	13 654	13 654	7 454	7 129	4 698
Mail and message distributing occupations	15 222	15 712	14 213	12 243	12 474	7 351	9 512	20 789	20 789	17 049	17 498	9 518
Production coordinators and expeditors	16 213	16 444	13 574	10 050	10 250	7 604	9 512	14 535	14 535	11 896	12 034	8 874
Traffic, shipping, and receiving clerks	11 614	11 906	9 889	9 634	9 669	6 919	10 029	16 140	16 140	11 223	11 676	9 446
Stock and inventory clerks	11 450	11 529	12 590	11 467	11 610	8 328	8 328	15 337	15 337	11 465	11 886	10 566
Other material processing, scheduling, and distributing clerks	14 652	15 229	12 590	11 467	11 610	8 328	8 328	15 337	15 337	11 465	11 886	10 566
Adjusters and investigators	16 925	17 571	10 982	14 608	14 829	7 206	17 935	18 865	18 865	14 405	14 930	12 220
Data-entry keyers	12 078	12 712	10 093	9 556	9 556	—	9 862	14 371	14 371	15 480	15 480	9 989
Other administrative support occupations	12 350	12 948	9 648	11 104	11 743	4 417	9 862	18 293	18 568	15 759	16 221	11 183
Service occupations	9 423	9 802	8 133	10 448	10 978	7 190	7 937	14 030	14 388	9 437	9 871	7 572
Private household occupations	4 981	5 147	4 597	12 764	13 098	8 077	9 912	12 098	12 134	—	—	8 832
Protective service occupations	14 530	14 924	12 099	8 929	9 325	6 341	6 594	11 300	11 303	9 803	10 015	9 028
Guards	9 801	9 962	9 297	13 778	14 032	9 271	11 308	25 457	25 457	9 285	9 476	8 691
Other protective service occupations	17 413	17 647	15 399	8 264	8 590	6 985	7 115	14 803	15 402	16 976	17 034	24 232
Service occupations, except protective and household	7 718	7 850	7 276	9 891	10 465	10 525	6 789	12 275	12 709	10 691	10 829	7 355
Food preparation and service occupation	5 407	5 480	5 590	9 891	10 465	10 525	6 789	12 275	12 709	10 691	10 829	7 355
Health service occupations	9 177	9 434	8 421	8 905	9 547	8 905	6 613	19 567	19 567	15 260	15 260	7 445
Cleaning and building service occupations, except household	8 943	9 313	7 847	8 098	8 350	6 435	6 435	15 030	15 030	9 086	9 086	7 005
Personal service occupations	9 424	9 773	7 695	8 020	8 794	6 136	6 032	18 233	18 568	13 602	14 716	9 697
Farming, forestry, and fishing occupations	10 525	11 063	6 020	10 728	11 245	5 740	7 275	13 329	13 298	8 562	8 911	6 797
Precision production, craft, and repair occupations	16 029	16 349	12 496	11 525	11 681	8 550	10 828	19 269	19 578	15 130	15 515	10 314
Mechanics and repairers	15 147	15 353	13 029	11 560	11 719	7 868	11 019	25 093	25 153	16 588	16 934	13 306
Supervisors, mechanics and repairers	20 293	20 418	17 436	14 709	14 694	12 148	12 862	25 093	25 153	22 301	22 398	12 836
Automobile mechanics, including body	12 504	12 689	10 432	11 982	12 211	6 379	11 266	18 306	18 531	14 197	14 424	10 755
Industrial machinery repairers	15 825	16 037	13 666	11 225	11 183	10 289	12 048	18 506	18 653	15 557	15 742	11 928
Electronic repairers, communications and industrial equipment	13 732	13 842	12 103	15 321	14 012	—	—	21 610	21 336	13 438	13 593	10 743
Heating, air conditioning, and refrigeration mechanics	14 800	14 949	12 427	11 614	11 452	7 627	10 607	17 550	17 658	14 530	14 695	12 659
Other mechanics and repairers	18 360	18 465	14 405	11 316	11 542	—	—	19 193	19 344	16 108	16 363	11 710
Construction trades	15 303	15 698	11 095	9 740	9 723	9 519	8 007	18 972	19 302	15 031	15 427	10 210
Supervisors, construction occupations	21 542	21 905	14 119	13 931	14 260	16 237	8 536	25 016	25 565	15 031	15 427	10 210
Carpenters	12 134	12 304	9 592	8 518	8 397	10 368	8 536	16 357	16 585	12 091	12 269	8 465
Electricians	17 666	17 868	14 777	14 116	15 038	3 672	6 211	21 245	21 423	16 914	17 079	13 457
Painters, construction and maintenance	10 991	11 262	9 810	6 427	6 065	9 109	6 311	14 758	15 733	10 904	11 703	7 973
Plumbers, pipefitters, and steamfitters	16 642	17 016	12 592	9 501	9 355	7 014	5 353	16 362	16 607	12 843	13 347	9 313
Other construction trades	13 643	14 116	10 216	9 269	9 146	6 471	5 633	14 567	14 607	12 843	13 347	9 313

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extrusive production occupations	19 068	19 435	13 927	14 916	12 793	13 027	5 691	12 438	19 221	19 571	14 168	14 989	14 718	15 424	9 582	12 377
Precision production occupations	17 549	17 988	14 150	13 611	13 748	14 212	5 492	13 585	20 036	20 242	16 804	17 421	17 551	17 820	13 369	15 018
Supervisors, production occupations	20 269	20 767	14 510	15 664	14 003	14 085	11 592	14 278	24 314	24 314	17 575	18 053	20 356	20 646	15 553	19 101
Precision metalworking occupations	19 499	19 495	13 579	13 810	11 372	12 240	8 110	8 951	18 322	18 322	13 225	18 465	16 929	17 148	12 589	14 557
Tool and die makers	19 179	19 343	13 070	15 883	7 896	18 205	5 774	8 900	15 858	16 397	12 573	18 336	16 048	16 174	9 940	13 430
Mechanists	15 486	15 756	13 128	13 597	11 416	12 203	8 497	8 800	18 134	18 501	12 573	18 336	14 311	14 647	11 098	13 430
Sheet metal workers	14 030	14 238	13 353	13 997	10 497	10 203	9 938	9 920	17 565	18 107	12 573	18 336	14 311	14 647	11 098	13 430
Other precision machine workers	10 284	10 438	13 371	13 798	14 618	16 612	9 938	9 920	17 565	18 107	12 573	18 336	14 311	14 647	11 098	13 430
Precision textile, apparel, and furnishings machine workers	10 284	10 438	13 371	13 798	14 618	16 612	9 938	9 920	17 565	18 107	12 573	18 336	14 311	14 647	11 098	13 430
Precision food production occupations	13 451	13 830	10 610	9 804	8 751	9 685	8 218	7 005	15 449	15 326	16 525	18 896	19 462	19 711	16 456	15 484
Precision inspectors, testers, and related workers	16 981	17 232	14 524	14 626	8 751	9 685	8 218	5 249	16 939	16 895	18 462	18 896	19 462	19 711	16 456	15 484
Plant and system operators	18 214	18 524	15 264	15 988	21 241	22 878	8 592	23 881	18 499	18 600	18 462	18 896	19 462	19 711	16 456	15 484
Other precision production occupations	12 706	13 031	10 483	10 622	13 857	13 857	—	—	13 410	13 270	13 131	16 320	10 242	10 578	7 742	7 590
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	12 792	13 246	10 962	10 477	9 036	9 471	6 953	8 103	16 200	16 508	12 565	14 094	11 895	12 444	9 036	10 106
Machine operators and tenders, except precision	13 486	13 961	11 744	11 764	9 568	9 913	7 734	8 614	17 244	17 556	13 192	15 922	14 938	15 539	10 481	12 663
Metalworking and plastic working machine operators	13 319	13 820	11 526	10 601	9 426	9 927	7 488	8 072	15 444	15 749	12 324	15 455	12 839	13 542	9 304	10 939
Metal and plastic processing and woodworking machine operators	14 581	14 878	13 258	11 763	9 094	10 068	7 488	9 980	14 125	14 279	10 565	16 333	12 725	13 213	9 194	10 952
Textile machine operators	13 908	14 257	12 035	11 848	12 565	—	—	12 565	14 393	14 312	19 005	27 005	13 019	13 977	6 758	8 631
Printing machine operators	12 167	12 487	10 633	10 783	7 613	7 998	4 576	7 135	14 041	14 250	7 309	17 353	11 099	11 560	7 821	9 380
Textile sewing machine operators	14 670	15 012	12 036	11 960	12 482	10 467	20 087	9 505	12 410	14 181	7 878	13 912	12 430	12 707	11 913	10 540
Laundry and dry cleaning machine operators	10 025	10 455	8 933	8 970	7 497	8 334	6 130	4 415	16 787	17 183	10 305	12 005	12 332	14 241	6 870	13 232
Packaging and filling machine operators	8 854	9 686	7 933	6 771	11 455	11 134	14 019	2 410	15 232	16 238	10 305	12 005	10 500	11 130	6 935	7 685
Furnace, kiln, and oven operators, except food	9 597	9 928	7 795	7 908	9 409	9 582	7 205	8 884	14 336	14 336	15 746	19 245	13 251	13 455	12 184	15 562
Other specified machine operators	12 481	12 928	11 148	10 246	9 409	9 582	7 205	8 884	14 336	14 336	15 746	19 245	13 251	13 455	12 184	15 562
Miscellaneous and not specified machine operators	12 481	12 928	11 148	10 246	9 409	9 582	7 205	8 884	14 336	14 336	15 746	19 245	13 251	13 455	12 184	15 562
Fabricators, assemblers, and hand working occupations	16 009	16 347	14 079	13 164	10 990	11 783	6 823	5 466	16 893	17 298	12 924	13 772	15 798	16 264	11 539	13 121
Transportation and material moving occupations																
Transportation occupations	14 848	15 376	12 103	12 395	10 621	11 171	7 622	9 586	18 517	18 748	14 497	16 651	15 908	16 379	11 648	13 645
Material moving occupations	14 862	15 405	12 055	12 261	10 627	11 105	7 716	9 880	18 919	19 083	15 079	17 778	16 455	16 902	11 648	13 645
Truck drivers	14 247	14 747	11 786	11 975	10 550	11 006	7 837	9 899	15 798	16 103	12 573	14 909	14 165	14 547	10 864	12 480
Other motor vehicle operators	14 815	15 327	11 954	12 373	10 521	10 933	7 837	9 940	15 805	16 111	12 573	14 909	14 165	14 547	10 864	12 480
Rail and water transportation occupations	14 807	15 003	12 293	12 373	10 521	10 933	7 837	9 940	15 805	16 111	12 573	14 909	14 165	14 547	10 864	12 480
Other material moving occupations	11 127	11 163	11 268	10 256	8 890	10 371	4 795	12 865	15 386	15 778	15 184	16 726	11 690	11 694	11 488	13 163
Supervisors, material moving equipment operators	14 807	15 290	12 246	12 718	10 603	11 599	7 268	8 974	17 423	17 423	13 539	15 530	15 074	15 381	11 555	12 972
Crane, hoist and winch operators	19 792	20 127	16 361	18 137	12 942	12 942	5 767	11 149	25 585	25 832	17 005	16 818	20 640	21 042	10 099	15 121
Excavating, grading, and dozer machine operators	17 831	18 222	15 700	16 398	9 892	9 222	5 767	11 149	25 585	25 832	17 005	16 818	20 640	21 042	10 099	15 121
Other material moving equipment operators	14 942	15 207	11 501	12 910	10 372	11 937	7 239	8 856	18 715	18 834	13 559	16 712	14 077	14 324	10 592	12 416
Handriers, equipment cleaners, helpers, and laborers	9 344	9 494	8 862	8 629	6 342	6 491	5 684	6 002	13 710	14 055	11 216	11 600	9 723	10 103	8 198	8 943
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	18 689	19 323	14 549	15 110	11 215	11 831	8 324	—	18 405	19 166	14 675	—	15 054	15 964	6 229	385
Helpers, craft and production	9 263	9 366	9 102	8 268	6 294	5 866	5 416	6 028	13 325	13 532	12 014	11 091	7 402	7 990	7 139	7 696
Construction laborers	10 199	10 491	8 365	9 187	6 476	6 476	6 476	5 907	14 871	15 548	10 008	10 286	10 049	10 315	8 298	9 138
Freight, stock, and material handlers	8 781	8 775	8 863	8 427	6 640	6 599	6 898	6 229	14 997	15 456	10 984	13 190	9 246	9 698	7 665	7 992
Garage and service station occupations, and equipment cleaners	6 536	6 419	7 578	6 404	6 923	7 083	6 404	5 618	14 103	14 781	10 550	12 444	10 934	11 298	9 441	8 474
Land packers and packagers	6 553	6 945	7 775	7 952	6 216	6 216	6 216	5 853	12 676	12 785	10 550	12 444	10 934	11 298	9 441	8 474
Laborers, except construction	10 401	10 741	9 434	9 230	6 165	6 472	5 101	5 884	13 188	13 523	11 117	11 362	11 398	12 067	10 029	8 027

¹Persons of Spanish origin may be of any race.

Table 2. **Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.**

For meaning of symbols, see Introduction.

[Data are estimates based on a sample of 100,000.]

United States

Employed females 16 years and over

	Total, all industries	Agriculture, forestry, and fisheries	Mining	Construction, total
	Race	Spanish origin ¹	Race	Spanish origin ¹
	Total	White	Total	White
Managerial and professional specialty occupations	7 822	7 847	7 731	6 720
Executive, administrative, and managerial occupations	11 268	11 172	11 796	10 424
Officials and administrators, public administration	11 863	11 844	12 236	10 831
Financial managers	12 983	12 822	14 113	11 977
Managers, marketing, advertising, and public relations	13 757	13 786	13 011	12 461
Administrators, education and related fields	12 481	12 481	11 826	10 836
Managers, science and health	13 502	13 203	15 689	12 401
Managers, other	14 297	14 440	12 539	13 693
Other specialized managers	11 662	11 635	12 539	9 787
Other health and administrative support occupations	11 429	11 466	11 104	10 315
Self-employed	11 876	11 930	11 466	10 315
Management related occupations	7 862	7 773	8 503	7 899
Accountants and auditors	11 678	11 625	12 084	11 068
Personnel, training, and labor relations specialists	11 458	11 386	11 892	10 728
Buyers and purchasing agents	12 495	12 496	12 638	11 379
Inspectors and compliance officers	11 362	11 380	11 171	10 419
Other management related occupations	11 635	11 568	11 820	11 801
Professional specialty occupations	11 548	11 488	12 048	11 386
Engineers, architects, and surveyors	10 958	10 813	11 622	10 165
Architects	14 633	14 633	14 056	14 669
Engineers	11 787	11 704	12 912	11 783
Civil engineers	15 121	15 164	14 216	13 282
Electrical and electronic engineers	13 962	14 013	11 690	10 541
Industrial engineers	16 933	17 089	15 451	17 534
Mechanical engineers	13 249	13 260	14 105	13 087
Other engineers	16 035	16 182	14 105	13 087
Surveyors and mapping scientists	15 614	15 673	14 070	17 336
Computer systems analysts and scientists	8 808	8 694	12 065	6 135
Operations and systems researchers and analysts	17 051	17 108	16 689	14 977
Mathematical scientists	16 379	16 531	15 587	11 801
Natural scientists	14 314	14 019	16 080	11 879
Chemists, except biochemists	13 255	13 043	12 495	12 495
Other natural scientists	14 558	14 443	14 838	12 925
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
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Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing occupations	23 411	22 620	22 182	20 480
Health diagnosing				

Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

United States

Employed females 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race				Race				Race				Race			
	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹
Sales occupations	5 996	6 023	5 663	5 388	4 574	4 574	4 247	4 033	11 966	11 534	16 759	12 091	7 946	8 127	6 200	5 442
Supervisors and proprietors, sales occupations	8 622	8 603	8 787	8 388	7 868	7 868	7 298	7 005	19 457	19 457	19 457	12 091	8 983	9 230	4 387	—
Supervisors and proprietors, sales occupations	9 305	9 314	9 137	8 904	8 759	8 759	298	15 005	20 593	20 593	20 593	12 091	9 491	9 670	4 387	—
Self-employed	6 949	6 864	7 457	7 074	6 773	6 773	—	—	5 255	5 255	5 255	—	7 018	7 505	—	—
Sales representatives, finance and business services	10 719	10 740	10 084	9 944	6 051	6 062	5 845	1 383	10 170	10 170	21 687	—	16 503	16 303	10 429	5 504
Sales representatives, personal services	9 744	9 811	9 142	7 717	4 284	4 279	5 339	4 562	14 294	12 919	6 904	—	16 503	16 303	4 397	6 405
Sales workers, retail and personal services	4 598	4 571	4 828	4 520	3 686	3 638	3 676	3 547	9 917	10 106	6 904	12 091	4 190	4 192	4 397	5 251
Cashiers	4 757	4 747	4 862	4 588	4 113	4 051	4 490	3 641	8 604	8 604	6 904	12 091	6 059	6 088	6 122	6 691
Other sales occupations, retail and personal services	4 484	4 452	4 907	4 455	2 040	2 118	2 02	2 505	13 554	13 554	—	—	3 431	3 457	3 359	3 945
Sales related occupations	4 747	4 725	5 042	5 026	1 687	1 710	1 615	—	—	—	—	—	3 413	3 413	—	—
Administrative support occupations, including clerical	8 070	8 031	8 519	7 524	6 275	6 242	6 423	6 083	9 872	9 940	9 179	9 278	7 845	7 828	8 135	7 449
Supervisors, administrative support occupations	12 447	12 410	12 872	11 507	9 625	9 720	9 164	10 439	15 295	15 339	14 098	12 180	11 878	11 955	10 088	9 494
Computer equipment operators	9 269	9 203	9 830	8 582	8 419	8 419	15 030	10 439	10 115	10 115	9 497	10 519	9 935	9 935	8 883	9 113
Secretaries, stenographers, and typists	8 142	8 146	8 161	7 689	6 673	6 681	6 280	5 921	9 884	9 937	9 149	9 770	7 808	7 814	7 421	7 252
Secretaries	8 346	8 330	8 608	7 967	6 788	6 766	6 311	6 037	10 015	10 036	9 467	10 183	7 886	7 886	7 591	7 338
Stenographers and typists	7 112	7 086	7 299	6 780	5 902	5 939	6 217	5 520	7 057	7 057	7 387	7 688	6 831	6 784	6 097	6 400
Receptionists	5 820	5 795	6 298	5 545	4 847	4 847	4 100	4 076	7 952	7 952	6 930	6 997	5 701	5 680	4 661	4 661
Other information clerks	7 220	7 118	7 890	7 182	4 017	4 099	2 801	2 305	7 952	7 952	12 741	8 967	5 222	5 222	5 698	3 875
File clerks	5 664	5 667	5 725	5 137	5 478	5 193	6 667	4 489	6 825	6 825	6 998	7 159	5 663	5 663	6 307	5 135
Other records processing occupations, except financial	7 806	7 746	8 387	7 550	7 445	7 600	5 380	6 855	12 003	11 863	12 871	10 354	8 359	8 177	10 126	10 542
Bookkeepers, accounting, and auditing clerks	8 014	7 966	8 711	8 140	6 147	6 089	8 706	7 247	9 540	9 488	12 226	8 575	7 883	7 855	8 599	7 992
Payroll and timekeeping clerks	9 488	9 444	10 074	8 923	7 420	7 572	6 324	6 776	10 448	10 448	12 907	9 047	8 488	8 452	9 866	8 745
Other financial records processing occupations	8 156	8 140	8 311	7 598	6 683	6 511	13 454	1 205	9 850	9 850	9 525	10 071	8 424	8 375	8 229	10 852
Telephone operators	8 299	8 216	8 879	7 751	6 139	6 139	5 804	4 803	8 773	8 773	8 910	7 892	6 564	6 585	5 770	1 028
Mail and message distributing occupations	10 114	9 330	12 725	9 709	5 046	5 111	3 582	3 508	5 458	5 203	5 692	6 482	6 450	6 212	6 144	9 091
Production coordinators and expeditors	4 469	4 467	4 709	4 232	3 271	3 271	3 584	3 548	11 648	11 648	12 094	10 094	9 958	10 033	9 419	15 228
Traffic, shipping, and receiving clerks	8 096	8 134	7 983	7 265	5 107	5 107	5 855	5 422	9 993	10 485	9 986	8 249	7 523	8 070	4 134	9 305
Stock and inventory clerks	8 171	8 132	8 513	7 598	7 370	7 217	8 555	7 761	10 040	10 214	9 364	9 126	7 901	8 886	8 990	9 988
Other material recording, scheduling, and distributing clerks	7 895	7 901	8 076	7 356	6 974	6 974	5 036	4 555	8 908	8 978	9 844	6 190	8 498	8 522	10 221	7 172
Adjusters and investigators	9 694	9 622	10 775	9 156	7 372	7 357	5 714	4 943	12 446	12 930	10 592	6 058	9 767	9 727	10 543	6 529
Date-entry keyers	8 266	8 188	8 510	7 823	6 880	6 880	3 543	6 672	9 722	9 832	9 538	9 090	8 650	8 719	7 955	8 830
Other administrative support occupations	7 144	7 095	7 595	6 557	5 920	5 879	4 461	4 773	9 865	10 069	7 901	9 090	7 182	7 014	10 116	6 969
Service occupations	4 631	4 484	5 165	4 582	3 639	3 606	3 680	3 804	7 257	7 350	7 394	4 917	4 561	4 402	4 850	4 828
Private household occupations	2 674	2 364	2 983	3 357	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	6 880	6 654	7 877	6 490	5 232	5 437	891	3 937	7 988	7 753	11 005	3 005	5 270	5 214	5 183	3 859
Guards	5 027	4 803	6 004	4 552	3 691	3 829	—	2 354	7 988	7 753	11 005	3 005	5 199	5 116	5 004	3 859
Other protective service occupations	11 153	11 067	11 652	10 816	5 542	5 766	891	4 922	7 172	7 298	7 303	4 953	6 717	6 717	7 770	—
Service occupations, except protective and household	4 739	4 548	5 552	4 712	3 395	3 262	3 726	3 791	8 165	8 411	10 283	4 298	4 513	4 344	4 827	4 842
Food preparation and service occupation	3 852	3 737	4 618	3 912	3 740	3 660	3 413	4 888	10 853	11 075	9 005	10 805	4 719	5 251	4 012	893
Health services occupations	6 019	5 813	6 735	5 845	3 801	3 484	3 726	3 189	10 075	10 075	9 005	10 805	4 719	5 251	4 012	893
Cleaning and building service occupations, except household	4 932	4 716	5 318	4 815	3 196	2 998	3 641	3 773	7 009	7 072	7 221	5 007	4 375	4 182	4 696	5 015
Personal service occupations	5 071	5 039	5 152	4 825	3 352	3 301	3 763	1 980	5 232	2 774	6 548	4 005	4 683	4 298	5 195	4 694
Farming, forestry, and fishing occupations	4 253	4 275	3 851	3 831	4 213	4 241	3 663	3 777	6 836	6 836	—	—	6 462	6 363	7 205	7 793
Precision production, craft, and repair occupations	8 773	8 868	8 735	7 418	5 439	5 594	4 780	3 583	13 578	13 253	17 461	11 480	8 478	8 624	6 979	7 978
Mechanics and repairers	10 915	10 929	10 990	10 216	5 350	5 804	5 134	2 003	14 624	15 350	10 133	9 764	9 909	10 066	8 023	9 414
Supervisors, mechanics and repairers	12 457	12 409	11 782	10 639	6 630	6 650	—	—	9 272	9 272	11 148	—	12 254	12 819	8 023	9 414
Automobile mechanics, including body	8 734	8 707	8 728	8 366	3 947	3 947	—	6 005	14 905	15 618	11 148	—	8 178	8 776	8 789	2 830
Industrial machinery repairers	10 138	10 202	9 486	10 978	3 099	4 244	1 038	—	12 706	13 085	7 805	7 969	11 867	12 073	8 005	12 029
Electronic repairers, communications and industrial equipment	9 031	8 970	9 217	7 781	7 851	7 805	—	—	11 218	11 218	—	—	8 962	9 741	6 309	—
Heating, air conditioning, and refrigeration mechanics	9 841	9 787	9 950	8 559	7 005	7 005	7 005	—	6 885	7 755	9 605	—	8 540	8 669	4 371	11 989
Other mechanics and repairers	11 488	11 508	11 636	10 549	6 012	6 760	—	402	16 975	17 377	10 009	16 390	10 114	10 220	8 839	9 936
Construction trades	8 251	8 309	7 908	7 653	4 526	4 787	2 438	3 784	11 560	11 913	8 022	14 356	8 416	8 565	6 924	7 979
Supervisors, construction occupations	12 622	12 951	9 804	10 916	4 338	4 338	—	—	12 533	12 533	—	—	13 362	13 669	9 877	11 432
Carpenters	6 869	6 966	6 358	7 520	3 413	3 413	—	4 543	13 303	13 362	—	—	7 239	7 352	6 499	7 379
Electricians	10 718	10 847	10 992	9 303	10 255	10 255	—	—	15 729	16 428	12 605	14 005	10 379	10 834	7 849	10 342
Painters, construction and maintenance	5 615	5 590	6 049	4 539	3 023	2 690	3 316	3 252	8 794	10 149	—	—	5 383	5 518	4 199	3 739
Plumbers, pipefitters, and steamfitters	9 596	9 797	8 592	8 154	2 197	2 197	—	4 785	12 234	11 775	18 205	19 076	10 291	10 585	8 089	8 711
Other construction trades	7 544	7 344	7 940	8 880	4 821	6 004	—	2 068	7 665	8 104	3 441	11 992	7 326	7 166	6 726	9 712

¹Persons of Spanish origin may be of any race.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total
	White	Black			White	Black			White	Black			White	Black		
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraneous occupations	12 185	9 574	9 961	6 431	6 948	5 071	2 938	12 751	13 200	10 184	11 590	7 305	7 305	7 116	6 516	
Precision production occupations	8 448	8 401	7 333	5 781	5 836	8 829	4 299	12 299	12 617	84 435	10 040	8 838	8 731	13 270	9 659	
Supervisors, production occupations	10 994	11 110	9 039	8 190	8 110	2 035	7 563	13 444	8 936	7 205	12 376	12 643	12 402	4 797	5 775	
Precision metalworking occupations	8 660	8 687	7 708	1 304	2 035	4 005	7 563	8 533	8 936	7 205	7 005	7 734	7 734	15 697	5 775	
Tool and die makers	11 835	11 431	7 441	4 305	4 005	1 765	—	10 284	10 676	7 672	7 005	7 976	7 976	1 162	—	
Machinists	8 823	8 899	10 374	7 355	1 765	—	—	10 284	10 676	7 672	7 005	7 976	7 976	1 162	—	
Sheet metal workers	19 456	19 376	10 374	2 650	2 656	—	—	6 520	6 258	7 005	—	8 349	8 349	4 313	—	
Other precision metal workers	5 411	5 369	7 751	5 604	5 224	—	—	4 993	5 083	7 005	—	4 630	4 630	7 564	—	
Precision textile, apparel, and furnishings machine workers	5 411	5 369	7 751	5 604	5 224	—	—	4 993	5 083	7 005	—	4 630	4 630	7 564	—	
Precision food production occupations	6 100	6 081	6 046	4 522	4 167	—	2 714	5 185	5 185	—	—	6 283	6 283	7 790	—	
Precision rubber, plastic, and related workers	9 571	9 676	7 664	7 516	9 081	3 605	—	24 414	12 109	206 662	—	9 691	9 691	3 005	10 155	
Precision electronic equipment operators	11 852	11 321	13 329	7 516	9 081	3 605	—	24 414	12 109	206 662	—	9 691	9 691	3 005	10 155	
Other precision production occupations	7 731	7 768	7 111	4 933	5 465	1 915	—	11 103	12 109	13 005	—	4 847	4 847	2 981	13 005	
Operators, fabricators, and laborers	7 109	7 168	6 036	4 293	4 281	4 127	4 280	10 799	11 092	8 984	10 136	6 420	6 420	6 128	5 769	
Machine operators, assemblers, and inspectors	7 317	7 420	6 072	4 986	5 065	4 926	4 713	9 784	10 312	7 611	8 453	7 408	7 408	6 732	6 614	
Machine operators and tenders, except precision	6 909	6 905	5 782	4 798	5 445	4 879	4 677	9 572	10 117	8 548	9 494	7 446	7 446	6 343	5 187	
Metalworking and plastic working machine operators	8 992	9 024	7 364	3 715	3 911	4 760	4 382	13 000	13 000	—	—	7 446	7 446	6 343	7 715	
Fabricating machine operators, n.e.c.	8 096	8 128	5 991	3 911	3 911	—	—	10 375	10 375	—	—	4 233	4 233	2 301	3 650	
Metal and plastic processing and woodworking machine operators	7 575	7 619	7 068	2 990	3 262	2 720	2 720	10 648	14 161	515	—	6 954	6 954	3 452	3 564	
Printing machine operators	7 577	7 512	6 942	9 555	10 276	2 705	2 705	8 454	8 353	9 223	—	8 332	8 332	8 460	285	
Textile machine operators	7 456	7 346	6 038	9 301	11 575	4 536	4 536	8 967	7 720	10 318	—	7 198	7 198	6 716	8 441	
Textile sewing machine operators	5 730	5 841	5 745	5 373	6 441	2 002	2 002	5 235	5 141	5 468	2 694	6 318	6 318	5 327	4 914	
Laundry and dry cleaning machine operators	5 218	5 000	5 755	3 781	1 959	5 265	2 745	5 095	5 095	—	—	3 514	3 514	4 505	—	
Packaging and filling machine operators	7 571	7 649	7 773	6 076	6 773	6 459	3 729	13 275	13 275	—	—	6 905	6 905	13 005	—	
Furnace, kiln, and oven operators, except food	10 859	11 066	10 256	6 310	5 227	—	11 005	11 080	11 418	8 942	11 787	5 773	5 773	4 972	3 959	
Other specified machine operators	6 536	6 693	5 676	4 466	4 143	5 471	5 138	11 080	11 418	8 942	11 787	5 773	5 773	4 972	3 959	
Miscellaneous and not specified machine operators	7 949	8 064	6 394	5 108	5 347	4 625	4 405	5 095	5 095	—	—	8 476	8 476	7 127	5 930	
Fabricators, assemblers, and hand working occupations	7 911	7 931	6 670	4 412	4 491	3 830	4 302	11 167	11 870	8 017	9 880	7 600	7 600	7 019	7 479	
Welders and cutters	9 015	9 040	7 227	14 854	17 462	5 725	5 725	13 875	14 494	8 672	23 005	9 173	9 173	7 982	9 307	
Solders and brazers	7 388	7 406	6 768	9 355	9 355	4 685	—	10 305	10 305	7 563	8 005	6 830	6 830	6 830	6 234	
Assemblers	7 955	7 980	6 473	4 272	4 178	4 299	4 316	9 244	9 965	7 563	8 005	6 436	6 436	6 725	6 404	
Hand working occupations	6 040	6 055	6 470	4 430	5 108	2 567	4 252	6 540	6 540	—	—	7 246	7 246	7 000	10 184	
Production inspectors, testers, samplers, and weighers	8 503	8 590	6 804	5 633	5 393	6 703	5 880	8 932	9 143	3 261	16 589	8 144	8 144	9 199	—	
Graders and sorters, except agricultural	5 611	5 663	5 979	2 974	2 785	3 967	—	9 035	9 035	—	—	6 254	6 254	7 809	—	
Other production inspectors, testers, samplers, and weighers	8 924	8 973	7 736	6 269	6 125	7 137	5 880	8 905	9 185	3 261	16 589	9 038	9 038	9 495	10 184	
Transportation and material moving occupations	6 385	6 238	6 279	5 356	5 133	5 037	6 121	12 390	12 201	15 312	13 210	7 972	7 972	8 103	7 550	
Transportation occupations	5 793	5 637	6 829	5 096	4 900	4 709	5 916	11 430	11 078	14 307	15 826	7 225	7 225	7 319	6 097	
Motor vehicle operators	5 675	5 518	6 732	5 121	4 917	4 746	5 916	12 160	11 871	15 894	14 548	7 168	7 168	7 231	6 382	
Truck drivers	7 282	7 277	6 501	4 933	4 810	2 095	5 916	12 604	12 358	15 755	15 138	7 951	7 951	7 459	6 775	
Driver-sales workers	6 396	6 310	7 307	7 075	7 103	9 409	—	2 505	2 505	17 005	11 005	4 805	4 805	4 132	6 775	
Other motor vehicle operators	5 031	4 803	6 467	5 031	5 797	4 405	—	9 010	6 518	17 005	11 005	4 805	4 805	4 132	6 775	
Rail and water transportation occupations	12 395	12 446	12 082	4 209	4 134	5 241	—	13 287	13 313	18 305	17 937	9 955	9 955	10 265	4 003	
Material moving occupations	9 129	9 205	7 056	6 114	6 063	5 308	6 344	13 287	13 313	18 305	17 937	9 955	9 955	10 265	4 003	
Supervisors, material moving equipment operators	11 727	11 702	13 733	11 805	11 805	—	—	16 833	17 051	8 505	17 358	14 101	14 101	13 350	9 680	
Crane, hoist and winch operators	13 436	13 302	14 689	4 044	3 287	3 604	—	16 833	17 051	8 505	17 358	14 101	14 101	13 350	9 680	
Excavating, grading, and dozer machine operators	7 383	7 337	6 664	6 775	7 172	7 732	6 344	12 598	12 533	7 732	12 735	6 376	6 376	5 074	8 470	
Other material moving equipment operators	8 900	9 006	8 987	6 664	6 260	7 732	6 344	12 598	12 533	7 732	12 735	6 376	6 376	5 074	8 470	
Handlers, equipment cleaners, helpers, and laborers	6 533	6 536	6 851	3 816	3 776	3 591	4 029	9 836	10 285	7 696	9 119	5 595	5 595	5 832	5 066	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	10 775	11 096	9 834	5 811	6 672	4 132	—	9 982	10 212	8 725	—	8 933	8 933	6 714	14 005	
Helpers, craft and production	6 732	6 538	7 973	6 052	6 052	—	—	7 658	10 027	2 818	10 050	5 020	5 020	5 798	3 620	
Construction laborers	5 803	5 806	5 820	4 233	4 357	4 302	3 799	10 914	11 765	6 514	7 517	5 645	5 645	5 638	2 223	
Freight, stock, and material handlers	5 873	5 736	7 041	4 233	4 357	4 302	3 799	10 914	11 765	6 514	7 517	5 645	5 645	5 638	2 223	
Garage and service station occupations, and equipment cleaners	5 019	4 810	6 305	4 089	3 479	4 851	—	11 845	11 845	—	—	4 887	4 887	5 715	5 005	
Hand packers and packagers	7 112	7 209	7 255	4 095	4 084	3 688	4 376	10 520	10 520	—	—	7 366	7 366	7 873	6 864	
Laborers, except construction	6 479	6 382	5 837	3 287	3 193	3 384	3 308	9 463	9 943	7 848	7 491	—	—	—	—	

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over																
Managerial and professional specialty occupations	13 133	13 633	9 267	11 477	15 295	15 492	10 852	14 576	17 591	18 347	12 560	12 210	15 857	16 797	11 230	11 794
Executive, administrative, and managerial occupations	18 996	19 125	14 807	17 657	21 260	21 507	14 623	21 605	27 980	28 357	19 561	21 317	27 806	28 262	18 526	20 539
Officials and administrators, public administration	16 893	17 024	14 188	17 055	21 219	21 485	14 594	21 999	30 821	31 219	20 125	22 231	28 490	28 961	18 595	20 481
Financial managers	16 312	16 388	14 543	16 331	40 605	40 005	10 005	3 205	21 498	22 138	21 005	12 005	22 005	22 005	12 005	12 005
Managers, marketing, advertising, and public relations	26 664	26 271	31 250	29 055	40 610	40 074	10 005	—	30 551	30 738	21 572	24 873	27 945	28 125	23 207	23 288
Administrators, education and related fields	19 188	19 188	24 005	—	30 553	30 278	46 005	—	31 640	31 847	7 332	25 278	28 390	28 468	26 963	22 898
Managers, medicine and health	21 126	20 683	24 005	—	14 343	16 574	—	—	32 903	33 635	—	28 476	27 201	27 884	11 505	—
Other specified managers	19 922	19 996	20 183	17 163	20 435	20 077	10 785	18 596	27 622	27 885	23 943	18 688	27 781	27 991	26 420	19 233
Managers and administrators, n.e.c.	19 041	19 552	13 215	23 225	21 008	21 274	14 598	22 137	34 501	33 979	20 378	23 436	30 722	31 298	17 538	21 202
Self-employed	19 041	19 552	13 215	23 225	21 008	21 274	14 598	22 137	34 200	34 641	20 570	23 649	31 244	31 844	17 915	21 672
Management related occupations	—	—	—	—	—	—	—	—	23 019	23 128	16 449	17 704	22 389	22 566	6 231	16 672
Accountants and auditors	15 763	15 795	13 874	13 767	27 478	28 235	6 893	23 316	22 291	22 565	18 241	17 704	21 136	21 482	15 982	17 007
Personnel, training, and labor relations specialists	18 699	18 698	18 818	14 155	17 406	17 406	—	17 505	21 756	22 032	17 998	18 188	20 275	20 525	17 172	17 950
Buyers and purchasing agents	17 531	17 980	14 326	11 847	42 203	44 088	10 005	18 564	23 537	24 021	19 503	17 084	20 932	21 304	10 495	16 307
Inspectors and compliance officers	15 227	15 454	9 822	11 305	11 617	12 181	4 913	—	20 194	20 341	15 924	15 746	21 030	21 405	18 959	16 521
Other management related occupations	15 266	15 268	13 639	14 026	18 053	18 318	—	55 005	20 235	20 695	16 107	18 259	17 075	17 748	12 631	18 679
Other management related occupations	19 677	19 689	9 885	17 505	29 306	29 306	—	—	28 907	29 200	20 366	24 407	29 306	29 949	10 137	19 734
Professional specialty occupations	21 175	21 304	16 050	18 281	21 912	21 860	15 485	15 088	23 833	24 053	18 854	19 809	23 915	24 205	18 156	20 931
Engineers, architects, and surveyors	21 557	21 668	16 598	18 232	25 999	26 001	9 058	18 258	24 587	24 768	20 046	21 431	23 604	23 706	17 795	21 395
Architects	23 470	23 373	22 960	15 255	25 007	26 001	—	25 732	22 353	23 212	13 182	17 574	20 755	21 211	14 005	—
Engineers	21 887	22 004	16 789	18 450	26 673	26 673	9 058	6 910	24 597	24 776	20 103	21 467	23 628	23 721	17 886	21 395
Civil engineers	21 881	21 968	17 257	18 090	26 813	27 066	22 485	5 070	25 076	25 330	16 090	21 319	23 618	23 721	17 886	21 395
Electrical and electronic engineers	23 256	23 752	12 620	22 001	23 240	23 244	—	15 005	24 624	24 818	20 893	20 992	25 419	25 358	12 571	17 705
Industrial engineers	19 827	19 932	17 082	17 082	32 244	32 244	—	—	22 051	22 175	19 513	19 876	21 826	21 842	17 539	20 709
Mechanical engineers	23 216	23 958	9 177	33 960	29 476	26 244	4 583	—	25 034	25 192	20 756	22 385	25 761	23 404	16 143	21 090
Other engineers	21 292	21 609	15 148	33 960	29 476	26 244	4 583	—	25 034	25 192	20 756	22 385	25 761	23 404	16 143	21 090
Surveyors and mapping scientists	14 217	14 084	13 157	17 025	20 421	20 421	—	—	16 950	17 582	15 145	19 585	25 761	25 799	20 367	22 686
Computer systems analysts and scientists	22 149	22 010	26 005	22 005	40 005	40 005	40 005	—	24 093	24 305	20 663	21 669	22 313	22 223	21 943	27 693
Operations and systems researchers and analysts	20 885	21 238	15 505	18 149	18 149	18 149	—	—	24 069	24 197	22 559	20 703	22 849	22 389	30 005	34 005
Mathematical scientists	15 429	15 555	15 555	28 005	2 045	2 045	—	—	24 994	25 358	19 390	18 965	28 353	28 943	13 005	13 005
Natural scientists	18 282	18 391	16 787	8 227	20 080	20 080	—	—	23 157	23 534	17 582	19 139	20 494	20 804	17 500	18 631
Chemists, except biochemists	17 120	18 191	28 805	8 005	20 080	20 080	—	—	22 844	23 243	14 978	19 519	21 257	21 554	12 531	15 140
Other natural scientists	17 981	18 113	14 684	8 313	20 080	20 080	—	—	24 067	24 335	14 973	17 468	19 193	19 591	12 531	15 140
Health diagnosing occupations	32 034	32 036	3 925	—	16 005	16 005	—	—	44 623	45 267	23 878	47 917	31 119	33 139	8 779	11 020
Health assessment and treating occupations	10 398	14 928	3 925	—	16 005	16 005	—	—	21 338	22 046	14 331	18 926	23 992	24 581	12 369	11 020
Registered nurses	21 625	21 625	—	—	16 005	16 005	—	—	19 996	20 363	9 446	19 138	5 972	4 764	11 005	15 027
Other health assessment and treating occupations	8 901	13 255	3 925	—	16 005	16 005	—	—	22 051	23 000	9 646	18 792	25 830	26 266	14 005	15 027
Teachers, except postsecondary	10 483	9 958	13 005	—	7 874	7 874	—	—	20 276	20 806	14 332	14 702	20 912	21 490	—	—
Social scientists and urban planners	18 712	18 554	23 655	22 901	10 735	10 735	—	—	29 818	30 087	23 189	19 599	31 220	32 213	19 353	8 556
Social and recreation workers	10 330	9 493	11 805	—	12 903	12 903	—	—	19 679	20 699	9 705	18 005	12 866	16 252	1 785	—
Lawyers and judges	28 170	28 170	—	37 605	41 572	41 572	—	—	46 413	46 738	36 913	36 265	48 163	49 001	34 686	66 255
Writers, artists, entertainers, and athletes	17 038	17 494	10 444	17 587	14 913	14 983	16 505	10 826	19 106	19 337	14 962	14 952	22 084	22 307	16 050	17 349
Other professional specialty occupations	16 372	15 995	21 509	17 505	10 618	10 618	—	—	19 681	20 495	11 528	7 641	19 367	20 665	6 003	7 005
Technical, sales, and administrative support occupations	14 079	14 284	10 889	13 365	19 309	19 477	8 432	18 907	17 725	18 222	12 841	12 754	16 277	16 788	12 540	13 371
Technicians and related support occupations	14 359	14 360	10 314	14 731	18 128	18 035	10 855	26 109	17 628	17 869	14 936	14 967	17 237	17 353	12 540	14 432
Health technicians and technicians	16 753	16 753	—	14 815	—	—	—	—	19 966	20 406	15 102	16 749	13 572	17 575	7 077	8 610
Licensed practical nurses	16 005	16 005	—	—	—	—	—	—	18 669	18 575	20 285	18 945	10 755	10 755	—	—
Other health technicians and technicians	16 836	16 836	—	14 815	—	—	—	—	20 028	20 493	15 004	16 625	13 660	17 948	7 077	8 610
Engineering and science technicians	14 268	14 477	10 333	14 573	18 430	18 533	10 855	28 439	16 925	17 169	14 515	14 511	16 752	16 844	16 767	14 171
Electrical and electronic technicians	18 740	19 315	11 827	12 187	10 343	10 343	—	10 800	15 946	16 192	13 744	14 466	22 701	23 117	17 824	14 171
Industrial and mechanical engineering technicians	19 196	19 762	10 005	—	6 673	6 673	—	—	20 217	20 441	16 036	16 150	17 315	17 658	—	9 227
Drafting and surveying technicians	13 168	13 319	9 968	13 613	18 387	18 102	20 010	33 053	16 142	16 383	13 126	13 607	15 257	15 606	9 362	10 956
Other engineering and science technicians	15 346	15 618	10 699	16 099	19 447	19 504	7 526	27 184	18 005	18 243	15 527	15 205	16 536	16 541	17 035	12 538
Technicians, except health, engineering, and science	15 178	15 537	10 199	16 441	11 169	11 169	—	10 005	19 716	19 946	16 414	16 730	19 168	19 077	18 144	18 638
Airplane pilots and navigators	—	—	—	—	—	—	—	—	25 906	25 972	15 272	21 242	24 920	24 920	—	30 455
Air traffic controllers and broadcast equipment operators	11 251	11 306	10 005	7 005	4 491	4 491	—	—	18 474	18 577	16 794	10 888	15 323	15 323	—	—
Computer programmers	16 376	17 325	3 601	17 005	15 488	17 111	—	—	19 936	20 087	17 949	17 310	16 827	17 018	10 925	21 067
Other technicians, except health, engineering, and science	16 201	16 570	12 184	16 678	12 236	12 236	—	10 005	19 037	19 311	15 242	16 192	20 892	20 302	25 814	12 369

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Construction, government workers			Construction, self-employed workers			Manufacturing, total			Food and kindred products		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
United States												
Employed males 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations	13 852	13 806	19 761	19 778	19 992	9 623	21 791	22 153	14 973	18 101	18 431	14 806
Supervisors and proprietors, sales occupations	15 818	16 748	—	19 860	20 224	—	24 009	24 482	18 715	20 272	20 484	19 073
Salaries	15 818	16 748	—	19 860	20 224	—	24 009	24 482	18 715	20 272	20 484	19 073
Self-employed	15 120	15 295	7 425	19 860	20 224	—	24 009	24 482	18 715	20 272	20 484	19 073
Sales representatives, finance and business services	11 431	10 629	23 125	36 428	37 499	9 623	23 088	23 885	15 048	21 321	21 707	32 005
Sales representatives, commodities, except retail	10 530	7 308	23 125	14 341	14 341	—	24 020	24 308	16 193	17 931	18 257	14 377
Sales workers, retail and personal services	11 733	11 569	—	16 005	16 005	—	6 901	7 026	5 649	11 308	12 522	8 343
Cashiers	11 733	11 569	—	16 005	16 005	—	6 901	7 026	5 649	11 308	12 522	8 343
Other sales occupations, retail and personal services	28 208	28 208	—	14 925	15 735	—	11 801	12 354	5 611	14 213	15 072	7 658
Sales related occupations	13 622	13 803	11 345	20 107	20 627	6 321	15 392	15 840	7 339	16 706	16 706	10 533
Administrative support occupations, including clerical	17 871	18 319	12 947	22 880	23 776	—8 958	20 498	20 904	11 390	14 543	15 128	12 613
Supervisors, administrative support occupations	15 454	16 193	10 279	14 922	14 922	—	17 079	16 463	13 929	18 647	19 023	17 439
Computer equipment operators	9 540	10 654	4 049	30 546	30 546	—	17 079	16 463	13 929	18 647	19 023	17 439
Secretaries, stenographers, and typists	11 827	12 804	5 611	31 417	31 417	—	17 079	16 463	13 929	18 647	19 023	17 439
Struck and typists	8 136	9 040	3 208	1 205	1 205	—	11 891	11 619	8 824	15 321	15 464	7 300
Receptionists	10 297	10 297	—	1 205	1 205	—	11 891	11 619	8 824	15 321	15 464	7 300
Other information clerks	14 227	14 455	11 969	25 839	25 839	—	12 060	11 545	9 810	8 705	9 539	—
File clerks	8 929	9 668	7 703	1 985	1 985	—	15 371	15 710	13 671	15 036	15 400	14 413
Other records processing occupations, except financial	11 252	10 891	23 010	13 097	13 097	—	13 978	14 560	10 965	13 561	14 657	9 146
Bookkeepers, accounting, and auditing clerks	13 993	13 692	11 942	20 575	20 575	18 005	15 785	16 138	12 340	14 054	14 255	12 190
Payroll and timekeeping clerks	12 231	12 025	15 087	9 338	9 338	—	16 124	16 387	11 313	13 670	13 868	10 719
Other financial records processing occupations	13 253	13 135	—	9 338	9 338	—	16 124	16 387	11 313	13 670	13 868	10 719
Telephone operators	14 098	14 098	—	6 076	6 076	—	12 481	12 379	9 195	13 127	13 559	8 168
Mail and message distributing occupations	10 469	10 105	10 648	6 076	6 076	—	10 621	11 167	8 593	10 150	10 490	9 490
Production coordinators and expeditors	12 040	14 458	14 738	20 545	20 545	2 405	16 938	17 292	13 902	15 978	16 512	12 036
Traffic, shipping, and receiving clerks	12 040	14 458	14 738	20 545	20 545	2 405	16 938	17 292	13 902	15 978	16 512	12 036
Stock and inventory clerks	12 376	12 641	10 993	1 115	1 115	—	11 849	12 193	9 782	12 973	13 446	10 790
Order material receiving, scheduling, and distributing clerks	12 124	12 158	12 526	13 393	16 096	8 005	14 002	15 931	11 338	13 493	13 951	11 675
Adjusters and investigators	15 427	14 953	18 570	19 709	20 438	—	18 958	19 314	13 127	13 956	14 477	11 037
Advisors and inspectors	13 486	14 053	—	20 438	20 438	—	14 074	14 772	11 000	18 091	18 516	13 037
Date-entry keyers	13 228	13 862	10 829	21 037	21 498	—	16 038	16 548	12 108	14 714	15 290	10 414
Other administrative support occupations	10 129	10 537	8 200	11 805	12 342	8 667	12 398	12 882	9 890	11 345	11 963	9 941
Service occupations	11 068	11 217	10 842	20 315	20 315	—	13 639	13 774	11 723	10 797	11 015	9 462
Private household occupations	15 530	10 858	10 085	20 315	20 315	—	13 639	13 774	11 723	10 797	11 015	9 462
Guards	9 838	10 773	29 291	11 551	12 062	8 667	19 556	19 954	14 599	10 419	10 597	9 205
Other protective service occupations	11 096	9 073	7 767	11 551	12 062	8 667	19 556	19 954	14 599	10 419	10 597	9 205
Food preparation and service occupation	6 941	9 186	11 972	5 403	12 102	—	12 044	12 599	9 718	11 414	12 098	15 551
Health service occupations	9 927	10 364	7 894	28 520	28 520	—	10 339	11 095	9 295	11 414	12 098	9 971
Cleaning and building service occupations, except household	7 447	8 961	4 498	11 505	11 817	—	12 089	12 618	9 063	12 258	13 715	9 464
Personal service occupations	9 292	9 541	8 204	16 898	17 200	16 390	13 468	14 438	9 720	11 570	12 421	16 472
Farming, forestry, and fishing occupations	13 586	14 142	9 669	14 526	14 705	—	16 956	17 230	14 806	15 617	14 877	7 005
Precision production, craft, and repair occupations	13 061	13 186	11 325	14 288	14 544	—	17 782	18 177	13 805	15 878	16 435	13 059
Mechanics and repairers	12 595	12 591	12 248	17 496	17 496	—	22 905	23 127	18 967	16 458	16 711	15 850
Supervisors, mechanics and repairers	12 935	13 233	7 900	14 125	14 935	4 794	16 224	16 462	12 577	15 401	15 579	14 047
Automobile mechanics, including body	14 596	15 019	10 142	11 548	11 932	—9 995	16 956	17 230	14 806	15 617	14 877	7 005
Industrial machinery repairers	13 432	13 189	14 090	15 052	15 165	10 404	15 718	16 338	13 597	15 729	15 765	15 019
Electronic repairers, communications and industrial equipment	12 863	13 022	10 851	12 626	13 862	7 074	17 668	17 960	14 890	16 277	16 533	14 526
Heating, air conditioning, and refrigeration mechanics	13 563	14 242	9 236	14 519	14 696	10 540	16 956	17 230	14 806	15 617	14 877	7 005
Other mechanics and repairers	16 278	16 451	12 998	19 875	19 978	—	22 824	23 084	18 307	18 251	18 624	15 435
Construction trades	9 516	10 263	6 772	12 335	12 448	9 869	19 472	19 708	13 017	18 317	18 624	13 807
Supervisors, construction occupations	16 024	16 686	10 286	15 308	15 369	—	19 472	19 708	13 017	18 317	18 624	13 807
Carpenters	10 814	11 237	8 986	11 353	11 572	—	12 506	12 844	16 450	19 350	19 602	17 841
Electricians	14 833	16 403	9 781	12 332	13 392	—	12 506	12 844	16 450	19 350	19 602	17 841
Painters, construction and maintenance	11 360	12 012	8 280	15 361	15 601	—	18 897	19 280	12 975	13 905	13 456	11 716
Plumbers, pipefitters, and steamfitters	11 360	12 012	8 280	15 361	15 601	—	18 897	19 280	12 975	13 905	13 456	11 716
Other construction trades	11 360	12 012	8 280	15 361	15 601	—	18 897	19 280	12 975	13 905	13 456	11 716

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	13 409	13 750	9 005	10 907	13 809	14 044	9 755	—	16 180	16 522	14 707	14 605	16 509	16 949	15 487	—
Precision production occupations	15 922	15 988	15 441	14 759	16 818	16 929	13 809	19 743	18 149	16 384	14 767	13 752	15 492	16 145	12 374	12 535
Supervisors, production occupations	15 919	15 960	15 659	15 340	21 837	21 901	17 444	30 793	20 846	21 213	14 767	16 130	16 302	16 700	12 467	15 437
Precision metalworking occupations	16 296	16 426	16 122	15 770	15 875	15 823	23 088	8 304	16 462	16 735	13 605	16 693	16 745	17 214	12 274	14 480
Tool and die makers	—	—	—	—	21 523	21 523	—	—	21 266	19 425	18 228	16 102	16 102	17 286	12 344	24 080
Machinists	15 195	15 318	13 420	15 072	14 939	14 755	23 088	5 446	15 415	15 884	13 287	13 419	16 669	16 993	12 374	17 430
Sheet metal workers	16 000	16 132	16 716	16 977	15 846	15 755	—	9 680	15 606	16 720	13 222	13 278	15 494	16 398	15 372	17 543
Other precision metal workers	18 389	18 543	17 928	12 438	19 002	17 438	—	6 112	16 362	15 884	10 964	13 278	15 494	16 398	15 372	17 430
Precision textile, apparel, and furnishings machine workers	—	—	—	—	17 562	17 562	—	—	12 507	13 016	13 665	11 057	12 535	13 238	13 205	—
Precision food production occupations	9 941	12 001	525	—	23 382	23 382	—	—	16 586	16 895	13 665	11 304	15 102	16 991	11 002	11 086
Precision inspectors, testers, and related workers	15 212	15 138	16 603	11 169	14 574	14 574	—	—	21 070	21 424	17 603	17 804	19 206	16 527	15 372	15 811
Plant and system operators	16 390	16 570	14 935	8 393	20 737	22 887	—	11 706	12 070	12 424	10 586	10 218	12 204	13 539	7 671	7 681
Other precision production occupations	11 713	10 759	—	14 749	9 218	9 520	389	—	12 289	12 661	10 586	10 218	12 204	13 539	7 671	7 681
Operators, fabricators, and laborers	10 814	11 208	8 499	10 007	18 027	18 184	14 005	16 151	13 452	13 954	11 684	10 677	12 842	13 524	10 428	10 574
Machinists	12 838	13 488	9 830	11 426	17 553	17 553	6 924	9 292	13 615	14 116	12 045	10 792	13 103	13 704	11 210	11 209
Machine operators and tenders, except precision	11 725	12 301	9 715	11 996	17 579	18 113	9 292	13 274	13 615	14 103	11 864	10 732	13 254	13 836	11 485	11 434
Machine operators and tenders, precision	10 782	10 782	7 486	9 476	10 400	11 034	2 305	—	14 709	15 005	13 398	11 808	12 018	13 212	9 094	9 056
Fabricating machine operators, in c.c.	16 050	19 338	9 005	—	14 055	16 213	—	8 255	13 983	14 281	12 260	11 931	12 504	14 017	2 920	12 605
Metal and plastic processing and woodworking machine operators	9 774	12 489	8 508	—	15 465	17 432	1 012	—	12 272	12 594	10 723	10 782	13 151	13 204	13 531	13 661
Printing machine operators	13 448	12 596	18 880	—	10 031	12 906	1 405	—	15 035	15 357	10 086	12 203	13 370	13 322	13 242	11 560
Textile machine operators	18 406	18 496	—	—	14 100	14 100	—	—	9 991	10 413	8 823	8 985	11 703	11 792	10 034	10 034
Textile sewing machine operators	9 121	9 121	—	—	10 144	10 144	—	—	8 840	9 691	7 969	8 985	12 250	13 276	4 977	14 643
Laundry and dry cleaning machine operators	—	13 485	—	—	13 524	13 524	—	—	11 058	12 171	9 141	6 486	11 664	13 254	7 148	8 999
Packaging and filling machine operators	11 268	15 301	5 725	13 365	3 255	3 255	—	—	12 680	13 285	11 316	10 386	12 595	13 456	11 412	10 929
Furnace, tan, and oven operators, except food	14 553	11 988	7 472	12 631	13 646	16 546	6 106	10 248	13 867	13 572	11 876	15 593	16 397	16 085	11 617	12 113
Other specified machine operators	10 966	12 007	9 872	12 311	20 379	20 501	—	17 198	13 536	14 114	12 084	10 579	13 039	13 724	11 437	11 437
Miscellaneous and not specified machine operators	11 577	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	13 321	14 015	9 858	11 168	17 073	17 310	12 400	16 907	13 183	13 567	12 200	10 656	12 084	12 770	9 298	10 412
Welders and cutters	14 216	14 846	11 051	11 052	18 088	18 488	8 270	19 573	14 255	14 594	12 812	8 389	14 708	14 948	11 534	12 438
Solders and brazers	3 305	3 305	—	—	—	—	—	—	10 366	10 789	6 092	8 270	19 414	23 005	15 225	19 414
Assemblers	9 075	10 064	5 286	12 303	12 263	11 285	31 589	870	12 578	12 866	11 957	9 818	10 277	10 968	8 593	9 840
Hand working occupations	11 400	11 827	8 600	10 231	13 008	13 139	—	9 805	12 182	12 534	10 944	9 784	12 116	12 872	9 766	9 468
Production inspectors, testers, samplers, and weighers	14 924	15 279	10 703	4 888	14 713	14 713	—	—	15 612	15 997	13 521	12 586	12 603	13 310	10 114	8 939
Graders and sorters, except agricultural	12 161	12 161	—	—	6 882	6 882	—	—	11 835	12 607	8 837	9 384	9 474	10 435	7 260	5 627
Other production inspectors, testers, samplers, and weighers	14 990	15 360	10 703	4 888	17 756	17 756	—	—	15 875	16 211	14 042	12 947	13 839	14 425	11 191	11 821
Transportation and material moving occupations	11 592	11 782	9 644	11 191	18 687	18 732	16 639	18 066	14 599	15 157	12 270	12 121	14 574	15 145	11 708	11 695
Transportation occupations	10 880	11 190	8 782	10 352	18 089	18 104	18 360	18 066	14 599	15 157	12 270	12 121	14 574	15 145	11 708	11 695
Motor vehicle operators	10 676	10 958	8 784	10 217	17 942	17 935	18 360	18 066	14 599	15 157	12 270	12 121	14 574	15 145	11 708	11 695
Truck drivers	10 661	10 944	8 769	10 127	17 942	17 935	18 360	18 066	14 599	15 157	12 270	12 121	14 574	15 145	11 708	11 695
Driver-sales workers	26 466	26 466	—	30 010	13 704	13 704	18 768	18 768	14 025	15 299	11 981	11 603	15 122	15 635	11 729	12 023
Other motor vehicle operators	11 281	11 560	9 541	11 930	13 196	13 196	—	2 123	15 575	15 912	12 482	12 377	14 267	15 267	12 402	11 713
Rail and water transportation occupations	16 097	16 230	8 725	11 930	22 135	22 135	8 705	8 005	14 092	15 912	17 998	19 822	15 313	15 080	12 941	13 065
Material moving occupations	12 170	12 170	—	—	23 917	23 906	—	—	14 387	14 902	12 476	12 826	16 301	16 486	20 620	18 451
Supervisors, material moving equipment operators	16 413	16 884	11 005	11 774	18 963	18 963	14 897	17 402	21 395	21 402	20 826	19 376	17 079	17 216	16 634	16 803
Crane, hoist and winch operators	15 472	15 756	11 005	13 678	20 766	20 766	—	20 548	21 422	21 422	18 359	19 376	17 079	17 216	16 634	16 803
Excavating, grading, and dozer machine operators	11 167	11 278	8 966	13 956	20 766	20 766	—	21 187	18 102	18 102	14 315	13 704	14 828	12 845	10 530	12 629
Other material moving equipment operators	12 496	12 562	11 278	10 924	19 570	19 570	15 041	21 802	18 102	18 102	14 315	13 704	14 828	12 845	10 530	12 629
Handlers, equipment cleaners, helpers, and laborers	9 622	10 140	7 650	8 862	9 731	9 915	7 178	8 725	11 290	11 802	9 869	9 214	10 577	11 236	8 609	9 116
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	10 824	11 531	—	385	23 344	23 344	—	—	19 942	21 009	11 457	10 731	13 774	15 508	6 075	—
Helpers, craft and production	8 737	9 296	7 485	7 802	8 551	8 439	7 870	8 814	11 839	12 158	9 449	9 400	10 253	10 085	10 500	10 095
Construction laborers	9 646	10 161	7 651	8 916	—	—	—	—	12 210	12 929	9 449	10 427	12 232	12 874	9 143	10 364
Freight, stock, and material handlers	9 982	10 594	8 406	11 416	12 646	14 951	628	7 630	11 354	11 930	9 119	10 005	10 478	10 916	8 622	9 556
Garage and service station occupations, and equipment cleaners	9 047	9 345	6 213	8 873	16 333	16 333	—	—	11 506	11 880	10 819	9 015	11 060	11 148	11 322	9 700
Hand packers and packagers	12 643	12 643	—	13 005	8 286	8 286	—	—	10 324	10 887	10 685	8 107	10 685	11 582	8 769	8 940
Laborers, except construction	—	—	—	—	—	—	—	—	11 373	11 856	10 169	9 380	10 529	11 370	8 050	8 870

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Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Construction, government workers			Construction, self-employed workers			Manufacturing, total			Food and kindred products		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
United States												
Employed females 16 years and over												
Managerial and professional specialty occupations	9 383	9 589	8 396	7 711	7 678	8 917	8 731	8 915	8 225	8 296	8 563	7 439
Executive, administrative, and managerial occupations	12 993	13 052	12 699	10 990	10 894	23 351	13 448	13 463	13 316	13 448	13 567	12 356
Officials and administrators, public administration	12 912	12 907	13 128	12 748	12 651	23 909	13 974	14 046	13 320	13 708	13 665	12 137
Managers	12 413	12 407	11 649	—	—	—	9 359	9 359	—	—	—	—
Administrative, clerical, and related fields	13 905	13 905	—	—	—	—	15 553	15 570	14 272	15 908	15 625	16 044
Managers, transportation and related fields	7 639	7 639	—	7 414	7 414	—	14 579	14 608	14 515	17 161	17 362	15 854
Managers, science and health	—	—	—	10 169	10 169	—	13 856	14 017	13 008	29 542	29 542	—
Other specified managers	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	14 785	14 391	17 674	9 659	9 943	8 805	15 438	15 524	15 394	15 309	15 384	15 028
Managers and administrators, n.e.c.	12 827	13 006	11 447	12 753	12 588	25 626	14 278	14 663	13 011	14 318	14 318	10 601
Self-employed	12 827	13 006	11 447	12 753	12 588	25 626	14 278	14 663	13 011	14 318	14 318	10 601
Management related occupations	12 666	12 481	12 729	15 046	15 046	—	8 759	8 444	10 183	12 222	12 222	9 364
Personal, training, and auditing	12 414	12 408	12 827	8 355	8 355	—	12 896	12 889	13 167	11 807	11 785	11 871
Personal, training, and labor relations specialists	14 137	14 505	12 043	8 935	8 350	—	12 484	12 635	13 290	11 534	11 481	11 415
Buyers and purchasing agents	11 967	12 165	11 818	6 269	6 269	—	13 527	13 586	13 481	12 863	12 880	13 204
Inspectors and compliance officers	10 454	10 248	12 039	20 005	12 645	—	12 404	12 391	12 896	11 905	12 002	8 938
Other management related occupations	16 012	15 906	16 324	32 316	36 860	—	10 589	10 032	9 095	8 300	7 904	8 925
Professional specialty occupations	13 136	13 299	11 272	7 650	7 673	—	14 603	14 675	13 693	13 413	13 122	16 573
Engineers, architects, and surveyors	13 106	13 140	12 259	5 054	5 054	—	12 650	12 574	13 312	13 291	13 213	12 162
Architects	12 387	13 538	14 588	3 875	3 875	—	14 694	14 716	13 261	14 686	15 082	9 093
Engineers	13 415	13 308	14 588	6 269	6 269	—	14 571	14 739	7 105	20 005	20 005	8 087
Civil engineers	13 664	13 459	9 005	6 269	6 269	—	14 710	14 720	13 724	15 046	15 046	9 093
Electrical and electronic engineers	14 561	13 780	6 005	—	—	—	10 066	12 304	10 226	15 417	17 320	—
Industrial engineers	10 484	10 248	12 039	20 005	12 645	—	15 716	15 877	12 113	19 117	17 896	—
Mechanical engineers	10 683	13 434	—	—	—	—	13 326	13 275	14 213	13 418	13 418	16 049
Other engineers	12 425	12 425	—	—	—	—	16 305	16 359	14 925	23 937	23 937	—
Surveyors and mapping scientists	10 094	9 703	18 205	415	415	—	16 040	16 171	13 733	15 745	17 841	1 453
Computer systems analysts and scientists	15 775	16 449	6 035	—	—	—	16 713	16 701	16 789	18 104	18 156	—
Operations and systems researchers and analysts	14 706	14 695	—	—	—	—	16 408	16 603	14 637	16 074	16 100	25 005
Mathematical scientists	14 020	12 356	—	—	—	—	14 658	14 617	13 308	14 097	14 039	11 005
Natural scientists	11 125	11 519	11 306	15 904	15 904	—	15 100	15 043	14 775	12 917	12 443	12 512
Chemists, except biochemists	10 896	10 880	11 306	15 904	15 904	—	15 208	15 133	14 745	14 039	13 280	12 491
Other natural scientists	—	—	—	—	—	—	14 847	14 854	14 860	11 850	11 817	8 265
Health diagnosing occupations	15 775	15 856	15 505	—	—	—	21 479	20 062	33 274	8 681	7 763	—
Health assessment and treating occupations	16 456	16 889	14 005	1 599	1 599	—	14 423	14 322	16 876	12 516	12 281	15 731
Registered nurses	13 505	10 005	17 005	1 465	1 465	—	14 434	14 321	17 567	12 168	11 872	13 959
Other health assessment and treating occupations	—	—	—	1 755	1 755	—	14 201	14 341	12 189	14 435	14 740	13 005
Teachers, except postsecondary	10 840	9 005	12 125	5 008	5 008	—	10 425	10 426	11 143	11 915	11 787	6 774
Social scientists and urban planners	13 120	13 165	11 925	3 605	3 605	—	14 930	14 840	16 603	13 731	14 143	15 489
Social and recreation workers	9 612	8 933	11 875	—	—	—	9 956	10 106	9 028	8 538	10 505	—
Lawyers and judges	19 787	19 787	—	—	—	—	24 883	25 115	22 066	17 596	16 628	24 072
Writers, artists, entertainers, and athletes	11 889	12 395	8 524	7 792	7 820	—	10 734	10 728	10 997	11 956	12 183	8 188
Other professional specialty occupations	13 944	11 766	9 005	—	—	—	12 685	12 743	11 793	10 808	10 808	—
Technical, sales, and administrative support occupations	9 407	9 416	9 549	7 099	7 077	7 664	9 519	9 537	9 553	8 974	8 989	8 065
Technicians and related support occupations	9 769	9 674	10 888	7 850	8 270	5 255	11 753	11 767	11 742	10 391	10 266	8 983
Health technicians and technicians	13 067	14 623	9 955	—	—	—	11 318	11 322	11 201	8 515	10 688	9 605
Licensed practical nurses	—	—	—	—	—	—	10 305	10 356	10 095	9 556	9 711	7 645
Other health technicians and technicians	13 067	14 623	9 955	—	—	—	11 819	11 924	12 516	11 206	10 791	9 605
Engineering and science technicians	9 760	9 668	11 029	7 467	7 702	5 255	11 052	11 075	11 188	9 882	9 718	8 554
Electrical and electronic technicians	12 562	10 159	19 255	5 255	5 255	—	10 741	10 851	10 261	8 397	8 397	5 205
Industrial and mechanical technicians	9 581	11 268	5 345	20 005	20 005	—	12 010	12 088	11 623	10 566	10 566	—
Drafting and surveying technicians	9 702	9 733	10 437	5 934	5 934	—	10 345	10 405	10 198	10 566	10 566	12 462
Other engineering and science technicians	9 639	9 499	10 572	9 441	9 441	—	11 319	11 316	11 522	9 885	9 727	11 005
Technicians, except health, engineering, and science	9 694	9 576	10 538	10 064	12 081	—	13 447	13 429	13 414	13 442	13 502	12 947
Airplane pilots and navigators	—	—	—	—	—	—	13 294	10 536	1 480	1 480	1 480	3 174
Air traffic controllers and broadcast equipment operators	7 596	7 224	9 766	8 325	8 325	—	10 538	9 951	11 874	8 015	8 015	15 697
Computer programmers	11 789	11 772	12 290	12 419	12 419	—	14 266	14 178	15 008	12 514	13 834	20 825
Other technicians, except health, engineering, and science	10 045	10 079	8 927	6 005	15 005	—	12 027	12 133	11 324	13 016	13 002	—

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Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:

1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed females 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Sales occupations	9 037	8 949	9 383	8 605	6 492	6 541	9 003	1 378	8 706	8 777	8 010	7 066	6 351	6 412	6 334	5 358
Supervisors and proprietors, sales occupations	—	—	—	—	8 229	9 003	—	—	10 442	10 440	10 407	10 407	8 246	8 560	5 087	8 193
Sales representatives, financial and business services	—	—	—	—	6 229	9 003	—	—	10 442	10 440	10 407	10 407	8 246	8 560	5 087	8 193
Sales representatives, commodities, except retail	—	—	—	—	6 229	9 003	—	—	10 442	10 440	10 407	10 407	8 246	8 560	5 087	8 193
Sales workers, retail and personal services	11 066	10 789	13 005	—	6 659	6 659	—	2 755	10 321	10 381	10 381	10 381	9 024	11 133	9 145	25 005
Cashiers	8 135	8 010	8 538	8 605	2 172	1 097	—	—	10 321	10 381	10 381	10 381	9 024	11 133	9 145	25 005
Other sales occupations, retail and personal services	15 005	15 005	8 538	8 605	2 223	2 223	—	—	10 321	10 381	10 381	10 381	9 024	11 133	9 145	25 005
Sales related occupations	—	—	—	—	2 159	721	—	—	3 921	3 884	4 604	4 604	3 477	6 300	12 218	—
Administrative support occupations, including clerical	9 373	9 393	9 428	8 816	7 127	7 092	7 901	6 947	9 424	9 448	9 453	8 239	9 155	9 176	8 926	8 374
Supervisors, administrative support occupations	13 047	13 487	8 764	11 853	9 848	10 011	7 510	8 005	13 271	13 326	13 229	10 534	12 917	12 991	11 311	11 385
Computer equipment operators	9 732	9 730	8 685	10 845	6 823	6 868	—	—	9 127	9 158	9 158	9 024	9 748	9 851	9 187	10 068
Secretaries, stenographers, and typists	9 165	9 375	7 589	7 544	6 823	6 868	2 981	6 424	9 127	9 158	9 158	9 024	9 748	9 851	9 187	10 068
Secretaries	8 076	8 199	7 683	8 157	6 876	6 924	2 981	6 424	9 127	9 158	9 158	9 024	9 748	9 851	9 187	10 068
Stenographers and typists	7 779	7 136	7 521	2 005	5 803	5 803	5 005	6 838	7 012	7 041	7 182	7 336	8 128	7 987	10 507	7 785
Receptionists	6 480	6 536	6 264	2 005	5 821	5 821	—	—	7 934	7 934	7 934	7 351	8 232	8 482	10 512	5 398
Other information clerks	9 874	9 569	6 422	1 705	6 255	6 255	—	—	7 845	7 845	7 845	7 351	8 232	8 482	10 512	5 398
File clerks	9 874	9 569	6 422	1 705	6 255	6 255	—	—	7 845	7 845	7 845	7 351	8 232	8 482	10 512	5 398
Other records processing occupations, except financial	10 198	10 160	10 905	11 821	7 259	7 138	12 248	7 376	9 296	9 283	9 283	7 706	8 781	8 932	8 101	7 086
Bookkeepers, accounting, and auditing clerks	9 285	10 079	10 959	8 805	9 156	9 156	—	—	9 922	9 901	9 901	8 706	8 781	8 932	8 101	7 086
Payroll and timekeeping clerks	10 626	10 072	5 505	7 005	3 425	3 425	—	—	9 107	9 166	9 166	8 890	8 821	8 332	7 970	8 180
Other financial records processing occupations	8 686	9 518	7 105	7 005	3 890	3 890	—	—	8 352	8 397	8 397	8 299	8 352	8 397	8 299	8 593
Telephone operators	8 499	9 070	7 260	—	3 220	3 220	—	—	6 630	6 599	6 599	6 811	7 323	7 398	5 293	8 421
Mail and message distributing occupations	10 216	10 200	5 792	23 562	11 196	11 196	—	—	10 827	10 897	10 897	10 511	9 963	10 159	7 888	7 093
Production coordinators and receiving clerks	7 183	7 469	8 205	10 417	1 255	—	—	—	8 515	8 559	8 559	8 343	8 039	9 178	9 178	8 082
Traffic, shipping, and receiving clerks	9 081	9 115	7 453	8 389	7 516	7 516	—	—	9 709	9 725	9 725	8 485	8 329	8 384	7 788	8 973
Stock and inventory clerks	11 127	12 311	7 453	8 389	7 516	7 516	—	—	9 709	9 725	9 725	8 485	8 329	8 384	7 788	8 973
Other material recording, scheduling, and distributing clerks	8 085	8 184	6 517	8 873	7 768	7 768	—	—	10 580	10 637	10 637	10 682	9 816	10 800	10 795	11 513
Adjusters and investigators	9 417	8 685	14 541	9 629	8 872	8 872	4 005	6 905	9 310	9 266	9 266	8 873	8 759	8 585	9 472	7 804
Data-entry keyers	—	—	—	—	6 931	6 978	—	—	8 683	8 681	8 681	7 561	8 385	8 396	8 202	7 355
Other administrative support occupations	6 630	6 836	6 154	5 934	4 656	4 681	4 521	5 813	7 571	7 705	7 705	6 398	6 545	6 586	6 289	6 565

Service occupations	6 372	6 744	6 794	9 005	3 005	3 005	—	—	10 828	10 487	11 726	9 510	8 988	8 739	10 126	13 539
Private household occupations	6 637	6 463	6 893	9 005	3 005	3 005	—	—	10 740	10 567	11 746	9 379	8 560	8 117	10 126	11 884
Protective service occupations	5 207	8 945	6 005	5 810	4 673	4 701	4 521	5 813	12 515	12 491	11 021	11 043	15 434	15 434	18 505	18 505
Guards	6 653	6 846	6 103	5 810	4 673	4 701	4 521	5 813	12 515	12 491	11 021	11 043	15 434	15 434	18 505	18 505
Other protective service occupations	9 948	4 204	3 702	7 005	10 097	10 097	—	—	6 290	6 244	6 119	6 246	6 539	6 188	6 450	6 450
Food preparation and service occupations	6 840	7 297	6 001	5 414	4 624	4 649	4 521	5 813	9 676	10 100	10 328	6 777	8 352	8 833	6 561	6 149
Health service occupations	6 840	7 297	6 001	5 414	4 624	4 649	4 521	5 813	9 676	10 100	10 328	6 777	8 352	8 833	6 561	6 149
Cleaning and building service occupations, except household	6 393	6 566	4 642	7 919	2 196	2 196	—	—	7 546	7 779	7 247	6 367	7 532	7 809	6 785	6 889
Personal service occupations	7 307	6 970	9 705	10 228	5 515	5 515	—	—	7 033	6 975	6 975	5 764	5 764	5 143	8 637	3 181

Farming, forestry, and fishing occupations

Precision production, craft, and repair occupations

Mechanics and repairers

Supervisors, mechanics, and repairers

Automobile mechanics, including body

Industrial machinery repairers

Electronic repairers, communications and industrial

Heating, air conditioning, and refrigeration mechanics

Other mechanics and repairers

Construction trades

Supervisors, construction occupations

Carpenters

Electricians

Painters, construction and maintenance

Plumbers, pipefitters, and steamfitters

Other construction trades

Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	10 928	11 617	7 371	20 010	4 489	4 489	—	—	9 589	10 459	7 223	1 511	7 160	7 160	—	—
Precision production occupations	13 149	14 271	2 115	—	—734	—734	—	—	9 182	9 419	8 693	8 693	7 524	7 962	6 505	7 053
Supervisors, production occupations	10 867	11 510	9 923	—	4 643	4 643	—	—	11 427	11 570	11 121	8 963	10 922	11 300	8 673	9 366
Precision metalworking occupations	6 547	9 514	1 355	—	—	—	—	—	11 786	11 930	11 773	7 480	11 205	11 205	10 011	7 692
Mechanics	17 203	15 005	19 715	—	755	755	—	—	8 907	8 960	9 089	7 320	8 587	8 156	9 953	7 710
Other precision metal workers	—	—	—	—	10 005	10 005	—	—	10 249	10 347	9 865	9 130	16 124	19 587	10 370	8 505
Precision food, apparel, and furnishings machine workers	—	—	—	—	5 235	5 235	—	—	8 319	8 325	9 062	7 898	8 798	7 226	10 370	7 005
Precision inspectors, testers, and related workers	9 885	8 179	9 885	—	5 107	5 107	—	—	6 214	6 425	6 136	5 308	5 818	6 030	6 021	7 485
Plant and system operators	12 487	12 687	3 005	—	—	—	—	—	9 497	9 631	9 410	7 420	10 856	10 856	6 021	6 428
Other precision production occupations	2 605	2 605	—	20 010	12 255	12 255	—	—	12 158	12 312	10 029	19 318	11 443	11 407	11 208	6 405
					2 918	2 918	—	—	7 810	7 889	7 931	7 118	6 755	7 039	3 475	7 024
Operators, fabricators, and laborers	6 578	6 871	5 574	5 203	6 789	7 041	5 068	903	7 527	7 637	7 633	6 154	7 503	7 725	7 268	6 234
Machine operators, assemblers, and inspectors	8 623	9 389	6 006	6 644	10 943	11 640	—	861	7 514	7 622	7 630	5 813	7 453	7 902	7 366	6 226
Machine operators and tenders, except precision	9 220	9 605	6 332	5 266	—	—	—	—	7 079	7 204	7 107	6 045	8 024	8 277	7 615	8 787
Metalworking and plastic working machine operators	21 003	21 003	—	—	—	—	—	—	9 048	9 072	9 392	7 548	8 659	9 453	6 615	5 705
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	—	—	8 162	8 200	8 265	6 205	6 428	6 428	—	—
Metal and plastic processing and woodworking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Printing machine operators	9 513	10 758	6 192	285	6 059	6 059	—	805	7 660	7 704	7 504	7 141	7 880	7 949	7 773	6 000
Textile machine operators	—	—	—	—	—15 000	—15 000	—	—	7 565	7 511	8 295	6 867	8 740	8 709	5 798	10 334
Textile sewing machine operators	—	—	—	—	14 005	14 005	—	—	7 463	7 561	7 305	6 045	6 986	7 549	5 798	1 805
Laundry and dry cleaning machine operators	—	—	—	—	—	—	—	—	5 757	5 855	5 734	5 220	6 197	6 286	6 708	1 797
Food, kindred, and allied machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified machine operators	5 012	5 381	4 005	8 332	5 764	6 498	—	905	6 302	7 033	5 466	3 800	9 740	10 076	8 994	6 989
Miscellaneous and not specified machine operators	9 709	9 692	8 230	—	23 531	23 531	—	—	11 278	11 472	10 433	7 261	12 782	11 959	15 631	12 405
Fabricators, assemblers, and hand working occupations	7 824	9 141	5 544	7 755	5 747	5 747	—	—	8 055	8 089	8 571	6 693	6 592	6 485	6 705	5 436
Welders and cutters	9 800	15 008	4 734	6 338	7 755	7 755	—	—	9 111	9 092	9 571	7 346	7 667	7 992	6 722	4 581
Solders and brazers	5 955	5 232	6 091	12 005	7 395	7 395	—	—	7 419	7 436	7 720	6 909	7 608	9 189	3 405	3 405
Assemblers	5 726	6 533	4 962	10 005	4 215	4 215	—	—	8 083	8 122	8 586	6 714	6 805	6 908	6 829	5 992
Hand working occupations	9 180	9 130	9 545	10 005	7 251	7 251	—	—	6 375	6 422	6 825	5 341	6 029	6 081	6 379	5 110
Production inspectors, testers, samplers, and weighers	—	—	—	—	1 605	1 605	—	—	8 828	8 899	8 917	7 370	7 110	7 437	6 818	5 405
Graders and sorters, except agricultural	—	—	—	—	—	—	—	—	6 641	6 778	6 744	5 139	5 451	5 703	5 143	4 453
Other production inspectors, testers, samplers, and weighers	9 180	9 130	9 545	10 005	1 605	1 605	—	—	9 001	9 048	9 130	7 751	8 325	8 585	7 677	7 159
Transportation and material moving occupations	8 164	8 338	7 309	3 475	8 679	9 154	5 068	—	9 046	9 067	9 502	6 991	9 596	9 776	9 122	8 163
Transportation occupations	6 978	7 069	6 451	4 803	7 862	7 812	10 503	—	8 444	8 414	8 828	7 995	9 712	9 338	9 122	8 163
Motor vehicle operators	6 823	7 049	6 881	4 803	8 167	8 119	10 503	—	8 351	8 329	8 687	7 944	8 711	9 339	5 254	5 858
Truck drivers	6 999	7 034	7 384	5 002	8 834	8 794	10 503	—	8 559	8 487	9 181	7 990	8 469	9 124	6 205	6 284
Driver-sales workers	4 330	4 915	—	4 005	3 705	3 705	—	—	7 381	7 583	5 902	5 459	8 727	9 271	3 043	5 535
Other motor vehicle operators	9 810	10 938	405	—	3 505	3 505	—	—	8 315	8 352	8 324	9 121	11 874	12 716	6 005	2 005
Rail and water transportation occupations	9 810	10 142	8 592	2 191	9 426	10 578	3 255	—	11 911	11 992	12 384	9 764	9 148	9 148	10 349	8 892
Material moving, equipment operators	12 114	1 295	18 605	360	5 923	5 923	—	—	16 366	15 859	26 436	18 996	10 074	10 074	—	—
Supervisors, material moving equipment operators	9 764	10 221	12 005	3 699	7 794	7 794	—	—	13 481	13 509	12 785	14 713	10 062	9 982	2 084	17 005
Crane, hoist and winch operators	9 775	10 208	7 518	3 699	13 577	22 566	3 255	—	9 616	9 833	9 858	7 388	10 912	13 099	5 005	8 508
Extramining, grading, and dozer machine operators	—	—	—	—	—	—	—	—	8 896	8 958	9 320	6 605	10 059	10 004	10 668	8 792
Other material moving equipment operators	5 414	5 488	5 091	5 512	4 278	4 431	—	934	7 416	7 540	7 448	6 145	7 253	7 440	7 098	6 180
Handlers, equipment cleaners, helpers, and laborers	3 922	3 372	4 955	255	4 407	4 575	—	934	11 055	11 776	10 525	8 505	14 560	14 560	8 708	6 323
Supervisors, handlers, equipment cleaners, and laborers	5 531	5 071	5 047	5 831	2 195	2 195	—	—	8 719	8 870	6 290	8 870	7 621	7 422	7 005	4 504
n.e.c.	6 663	8 471	—	—	—	—	—	—	7 726	7 872	7 387	12 653	8 489	9 217	6 704	6 651
Helpers, craft and production	1 795	1 795	—	—	2 005	2 005	—	—	7 743	7 646	8 118	6 724	9 193	9 070	9 163	6 370
Construction laborers	7 590	7 590	—	—	—	—	—	—	7 235	7 456	6 976	6 360	7 456	7 524	7 964	5 436
Freight, stock, and material handlers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Garage and service station occupations, and equipment cleaners	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hand packers and packagers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed makes 16 years and over.....	13 056	14 054	8 939	9 872	14 850	16 643	8 459	8 486	18 173	18 952	12 978	12 627	16 767	17 291	11 389	12 050
Managerial and professional specialty occupations.....	27 119	27 705	13 637	20 782	30 565	31 749	15 535	18 706	29 664	30 094	18 722	21 048	23 396	23 769	15 446	18 059
Executive, administrative, and managerial occupations.....	28 948	29 526	14 478	21 466	31 991	33 187	16 668	19 606	32 104	32 582	19 033	21 901	28 078	28 510	17 259	21 732
Officials and administrators, public administration.....	26 648	27 226	11 444	20 348	27 734	28 022	12 050	17 865	19 305	19 505	27 918	—	27 510	27 779	18 368	26 395
Financial managers.....	36 088	36 413	1 285	48 629	39 740	40 177	11 832	21 726	34 040	34 109	18 791	31 306	24 671	25 010	17 617	17 832
Managers, marketing, advertising, and public relations.....	23 444	23 444	—	38 649	72 551	72 551	—	—	24 644	24 505	19 985	—	16 283	16 283	—	—
Administrators, education and related fields.....	22 469	22 818	14 218	14 735	24 873	26 249	5 795	14 951	26 255	26 522	22 050	20 034	23 824	23 959	21 754	13 260
Managers, medicine and health.....	30 870	31 446	15 339	20 837	32 945	34 201	17 807	20 752	35 722	36 368	18 940	20 153	30 313	30 744	16 905	23 878
Other specified managers.....	31 045	31 645	14 970	20 836	33 950	35 150	18 354	20 461	35 823	36 443	19 008	21 055	31 734	32 188	17 014	24 754
Managers and administrators, n.e.c.....	25 249	25 578	35 270	20 856	22 909	23 510	10 147	21 955	28 435	30 594	14 005	5 349	21 292	21 487	16 174	18 779
Self-employed.....	19 971	20 355	13 767	13 209	22 084	23 002	14 022	13 848	21 643	21 988	17 051	22 971	20 536	20 947	17 062	17 437
Management related occupations.....	19 954	20 131	15 033	13 752	20 344	21 105	12 199	14 289	21 043	21 273	16 904	22 411	19 271	19 681	17 447	14 775
Accountants and auditors.....	19 251	19 995	13 124	14 718	20 772	22 655	16 929	11 609	20 145	22 202	12 167	20 770	22 020	22 546	17 414	15 498
Personnel, training, and labor relations specialists.....	20 151	20 543	10 034	14 795	22 373	22 764	12 442	14 609	20 317	22 317	12 477	13 416	17 539	17 663	13 914	18 411
Buyers and purchasing agents.....	13 327	11 661	14 744	1 755	26 525	26 525	—	35 885	25 926	26 349	16 005	32 845	15 621	15 621	—	—
Inspectors and compliance officers.....	23 951	23 870	27 005	—	34 891	35 390	—	—	29 308	30 338	15 034	32 675	27 073	27 457	16 626	24 075
Other management related occupations.....	20 184	20 432	11 253	16 573	20 956	21 813	12 360	11 185	23 276	23 479	17 954	18 451	17 825	18 055	13 644	13 925
Professional specialty occupations.....	20 812	20 925	15 501	27 634	19 977	20 123	14 434	11 825	23 993	24 144	19 604	19 680	21 337	21 485	13 975	12 769
Engineers, architects, and surveyors.....	20 498	20 057	12 589	27 634	8 717	6 466	12 400	8 717	15 855	15 855	—	—	12 586	12 586	605	—
Architects.....	20 814	20 904	15 930	27 634	20 116	20 235	14 834	11 825	23 993	24 144	19 604	19 680	21 337	21 485	13 975	12 769
Engineers.....	20 838	20 838	—	—	20 461	20 461	—	—	26 244	26 472	20 551	29 005	19 023	18 506	25 005	—
Civil engineers.....	23 616	23 776	21 150	22 485	16 076	16 098	16 005	13 853	23 009	23 163	15 511	29 005	19 023	18 506	25 005	—
Electrical and electronic engineers.....	18 519	18 602	13 231	26 855	20 063	20 178	14 253	7 229	21 364	21 451	18 880	9 669	19 879	20 100	15 423	8 005
Industrial engineers.....	22 026	22 193	15 431	26 855	19 683	19 708	14 253	14 571	25 940	26 192	17 827	23 684	21 588	21 848	15 116	11 116
Mechanical engineers.....	23 409	23 373	18 792	31 665	21 000	21 251	15 178	14 571	25 940	26 192	17 827	23 684	21 588	21 848	15 116	11 116
Other engineers.....	20 380	20 323	—	—	18 005	18 005	—	—	16 693	16 693	—	—	18 660	23 807	24 346	9 446
Surveyors and mapping scientists.....	19 186	19 186	—	—	30 957	31 069	—	—	22 221	22 366	22 993	16 532	18 978	18 978	—	—
Computer systems analysts and scientists.....	18 070	19 244	13 205	—	22 494	22 543	—	23 914	24 970	25 045	—	—	21 728	22 836	26 770	31 005
Operations and systems researchers and analysts.....	20 170	20 847	6 340	11 108	20 207	20 631	8 005	—	23 160	23 160	—	—	17 728	17 199	23 900	—
Mathematical scientists.....	18 879	20 307	7 052	11 108	21 429	21 988	8 005	—	21 825	21 865	15 617	23 520	20 625	20 700	19 524	—
Chemists, except biochemists.....	29 985	29 985	—	—	10 185	10 185	—	—	31 329	31 329	10 165	—	20 822	20 957	19 524	—
Other natural scientists.....	12 441	12 431	10 925	14 005	32 336	32 336	—	—	36 430	36 430	—	—	19 648	19 648	—	230
Health diagnosing occupations.....	12 441	12 431	10 925	14 005	16 226	16 226	—	—	9 698	9 698	—	—	28 265	28 265	—	—
Health assessment and treating occupations.....	12 693	12 626	10 925	14 005	27 505	27 505	—	—	12 419	12 419	—	—	18 626	19 437	21 835	21 005
Registered nurses.....	11 410	11 410	—	—	9 285	9 285	—	—	6 675	6 675	—	—	18 696	18 696	—	—
Other health assessment and treating occupations.....	13 211	13 901	8 382	—	23 207	24 145	—	4 658	29 350	30 382	18 623	17 665	19 619	20 085	3 005	—
Teachers, except postsecondary.....	30 420	30 655	29 915	—	23 207	24 145	—	—	16 201	18 779	18 623	18 216	26 375	26 738	25 154	17 538
Social scientists and urban planners.....	8 630	9 247	—	—	26 525	26 525	—	—	47 515	47 515	—	—	30 557	30 377	6 665	10 005
Lawyers and judges.....	51 469	51 469	—	—	45 958	45 876	—	48 005	43 928	43 928	—	—	30 286	30 702	10 472	18 005
Writers, artists, entertainers, and athletes.....	17 227	18 324	9 010	12 885	20 003	21 245	12 376	10 188	19 350	19 545	15 152	16 528	17 461	17 674	13 442	18 037
Other professional specialty occupations.....	17 132	18 221	12 031	—	18 699	19 777	11 288	—	20 447	20 447	—	—	13 856	14 559	11 121	2 961
Technical, sales, and administrative support occupations.....	16 187	17 057	9 743	11 007	17 034	18 930	8 560	8 838	19 656	20 209	13 631	13 288	13 960	14 421	9 254	9 565
Technicians and related support occupations.....	15 172	15 348	12 739	13 189	14 814	15 103	12 022	13 505	18 383	18 506	16 382	12 794	15 883	16 062	13 944	13 453
Health technologists and technicians.....	18 418	18 042	18 956	—	4 005	4 005	—	—	17 130	17 130	—	—	21 092	21 092	—	—
Licensed practical nurses.....	18 418	18 042	18 956	—	4 005	4 005	—	—	17 130	17 130	—	—	17 563	17 563	—	—
Other health technologists and technicians.....	14 475	14 636	11 933	14 308	14 674	14 938	12 157	12 033	18 029	18 158	16 410	10 004	15 482	15 668	13 698	13 145
Engineering and science technicians.....	15 547	15 906	10 534	12 005	16 286	17 144	12 855	10 134	20 747	20 845	17 130	19 930	15 506	15 600	14 439	14 909
Electrical and electronic technicians.....	17 027	17 218	13 558	12 005	15 674	16 393	9 984	13 331	18 518	18 608	16 706	13 240	18 128	18 128	13 538	7 318
Industrial and mechanical engineering technicians.....	14 489	14 515	14 253	12 005	15 056	15 390	10 805	12 795	15 592	15 746	16 116	4 107	13 168	13 466	11 538	7 318
Drafting and surveying technicians.....	13 920	14 042	11 376	12 005	15 056	15 390	10 805	12 795	15 592	15 746	16 116	4 107	13 168	13 466	11 538	7 318
Other engineering and science technicians.....	16 141	16 330	13 786	11 604	15 025	15 353	11 867	21 305	18 125	18 249	16 354	10 346	17 575	17 966	13 556	14 771
Technicians, except health, engineering, and science.....	24 393	25 018	—	—	24 448	24 448	—	—	19 350	19 491	16 332	19 792	16 632	16 804	14 309	14 588
Airplane pilots and navigators.....	29 403	29 403	—	—	32 005	32 005	—	—	25 971	25 971	—	—	26 042	26 042	—	—
Air traffic controllers and broadcast equipment operators.....	15 061	15 100	12 944	12 339	14 718	14 997	10 264	21 305	22 770	23 358	18 915	—	12 840	12 840	—	6 276
Computer programmers.....	16 107	16 349	13 945	10 390	14 237	14 511	13 576	—	17 777	17 777	15 710	19 156	16 602	16 750	14 377	15 533
Other technicians, except health, engineering, and science.....	16 107	16 349	13 945	10 390	14 237	14 511	13 576	—	17 777	17 777	15 710	19 156	16 602	16 750	14 377	15 533

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	27 948	28 494	14 524	18 848	28 351	28 959	12 526	14 405	26 177	26 553	15 561	22 350	14 454	15 074	7 076	8 620
Supervisors and proprietors, sales occupations	25 343	26 839	11 102	14 757	27 072	28 399	10 835	11 300	27 271	27 684	14 605	23 005	20 922	21 193	13 634	25 908
Supervisors and proprietors, sales occupations	26 524	28 055	12 031	14 757	27 072	28 399	10 835	11 300	27 271	27 684	14 605	23 005	20 922	21 193	13 634	27 010
Self-employed	12 252	11 714	6 805	—	27 246	28 253	—	20 005	28 928	28 928	955	—	23 155	23 451	13 011	13 006
Sales representatives, finance and business services	21 118	21 118	—	—	24 528	24 528	—	—	24 528	24 528	—	—	23 155	23 451	13 011	13 006
Sales representatives, commodities, except retail	28 515	28 830	16 264	21 951	28 679	29 195	12 736	15 651	26 266	26 606	16 484	22 719	23 155	23 451	13 011	13 006
Sales workers, retail and personal services	12 415	12 427	12 532	11 829	12 292	13 491	8 005	3 827	13 261	14 607	4 345	10 005	4 652	4 199	4 150	8 150
Cashiers	10 743	9 120	13 305	17 005	5 736	6 673	8 005	3 827	14 286	21 367	7 205	10 005	10 836	11 319	8 573	8 719
Other sales occupations, retail and personal services	13 195	14 511	12 332	9 005	15 663	16 398	8 005	—	13 096	14 006	55	10 005	4 584	4 148	3 933	—
Sales related occupations	34 255	34 255	—	8 005	18 205	18 205	—	—	21 005	21 005	—	—	10 402	10 213	—	—
Administrative support occupations, including clerical	11 942	12 496	9 004	9 946	10 006	10 768	8 184	7 909	16 305	16 812	12 822	11 968	12 502	12 952	10 051	9 623
Supervisors, administrative support occupations	16 544	16 993	13 287	13 347	15 104	15 990	10 727	11 951	20 454	20 772	13 619	14 486	17 932	18 350	15 093	13 143
Computer equipment operators	13 954	14 295	11 358	10 465	11 911	12 152	10 727	11 951	17 039	17 039	13 972	16 081	12 453	14 726	11 526	9 579
Secretaries, stenographers, and typists	23 804	24 526	2 005	4 606	18 818	18 970	9 106	10 259	12 918	12 553	13 972	12 918	12 095	12 594	9 223	5 807
Secretaries	27 621	28 736	2 005	4 459	18 962	20 683	9 106	10 259	12 918	12 553	13 972	12 918	12 095	12 594	9 223	7 243
Stenographers and typists	9 727	9 727	—	5 005	9 964	6 990	8 113	13 005	9 736	9 736	15 765	—	9 307	8 250	14 784	6 998
Receptionists	6 155	6 155	—	3 525	9 432	9 968	8 113	13 005	9 736	9 736	15 765	—	9 307	8 250	14 784	6 998
Other information clerks	14 865	17 178	5 079	15 705	11 925	14 732	7 772	8 005	19 913	20 215	18 062	8 177	11 446	11 959	9 995	10 599
File clerks	14 564	14 879	10 370	6 326	13 726	14 732	7 772	8 005	19 913	20 215	18 062	8 177	11 446	11 959	9 995	10 599
Other records processing occupations, except financial	11 019	11 317	9 415	9 267	9 034	10 100	8 346	8 109	14 664	15 128	10 293	9 084	11 157	11 386	9 945	9 695
Bookkeepers, accounting, and auditing clerks	14 131	14 475	10 415	12 085	12 636	13 403	11 019	8 494	16 076	16 536	10 629	12 502	12 426	12 426	10 781	11 560
Payroll and timekeeping clerks	13 252	13 437	8 005	—	8 450	9 248	5 083	10 401	14 892	15 479	10 629	12 502	12 426	12 426	10 781	11 560
Other financial records processing occupations	12 180	13 361	4 489	18 605	9 811	11 486	5 083	7 493	15 479	15 479	15 022	9 005	16 338	17 138	10 351	13 375
Telephone operators	6 133	7 170	5 046	—	12 294	20 275	7 505	4 002	13 950	13 950	11 022	7 417	8 082	9 022	7 810	7 929
Mail and message distributing occupations	8 899	9 151	8 415	6 456	5 909	7 469	4 593	4 002	11 234	11 405	11 022	7 417	15 601	15 995	9 743	13 557
Production coordinators and expeditors	13 092	13 317	11 267	10 476	13 880	14 784	7 677	11 249	17 472	18 025	12 900	10 183	15 601	15 995	9 743	13 557
Traffic, shipping, and receiving clerks	9 372	9 519	8 415	7 793	8 006	8 017	8 328	7 263	13 983	14 345	12 159	11 789	10 550	10 640	10 474	9 479
Stock and inventory clerks	9 983	10 568	7 592	7 807	8 580	9 430	5 955	5 779	15 701	16 145	12 159	12 362	11 124	11 434	8 344	8 344
Health service occupations	9 953	10 038	9 809	7 363	8 495	9 806	5 955	5 779	15 701	16 145	12 159	12 362	11 124	11 434	8 344	8 344
Other material recording, scheduling, and distributing clerks	16 470	17 773	8 400	13 505	14 103	14 206	—	7 378	17 726	18 119	15 403	10 252	14 632	15 107	11 936	5 999
Adjusters and investigators	10 135	10 810	8 007	11 235	7 659	7 046	—	7 167	14 725	15 403	12 151	10 522	14 574	15 116	8 900	16 770
Data-entry keyers	13 186	14 015	7 835	8 878	10 298	10 976	8 306	7 167	17 121	17 650	13 184	12 987	11 321	11 670	9 869	7 337
Other administrative support occupations																
Service occupations	8 865	9 280	7 627	7 419	7 145	7 307	6 775	6 053	14 421	15 026	11 068	10 570	9 460	9 552	9 185	9 133
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	8 200	8 262	7 701	8 580	7 482	7 442	7 844	7 260	12 771	12 993	10 713	11 482	10 907	10 661	11 923	9 825
Guards	7 869	7 937	7 271	8 580	7 482	7 442	7 844	7 260	12 771	12 993	10 713	11 482	10 907	10 661	11 923	9 825
Other protective service occupations	15 811	15 967	14 725	7 318	12 505	12 505	6 629	5 960	16 345	16 407	15 448	10 520	21 995	22 272	19 005	9 034
Service occupations, except protective and household	9 042	9 617	7 620	7 318	7 070	7 272	6 629	5 960	16 345	16 407	15 448	10 520	21 995	22 272	19 005	9 034
Food preparation and service occupation	10 696	12 640	8 452	8 405	6 659	5 018	8 700	1 522	15 984	18 162	10 494	7 381	11 333	9 175	7 697	17 791
Health service occupations	10 155	7 372	19 505	8 405	6 659	5 018	8 700	1 522	15 984	18 162	10 494	7 381	11 333	9 175	7 697	17 791
Cleaning and building service occupations, except household	9 022	9 403	7 582	7 251	6 956	7 131	6 588	6 136	14 575	15 446	11 173	10 510	9 041	9 202	8 686	7 205
Personal service occupations	9 121	9 479	8 128	13 735	13 843	15 578	3 799	4 691	19 398	20 576	11 505	13 755	12 837	13 573	13 005	11 638
Farming, forestry, and fishing occupations	7 940	8 611	6 727	11 182	4 249	4 813	3 102	1 535	13 549	14 516	9 174	5 386	9 292	9 726	3 005	12 505
Precision production, craft, and repair occupations	13 814	14 172	11 055	12 158	13 488	14 453	10 379	10 051	20 093	20 424	15 786	15 569	18 568	18 936	14 665	14 571
Mechanics and repairers	12 244	12 478	10 696	12 177	17 995	12 326	10 026	9 896	18 867	19 148	16 407	14 957	16 407	16 612	14 603	12 632
Supervisors, mechanics and repairers	15 256	15 561	13 281	16 264	17 305	17 211	20 133	16 201	26 423	26 274	30 875	20 922	19 226	19 994	7 184	12 632
Automobile mechanics, including body	13 388	13 855	9 139	11 305	12 078	12 435	10 398	7 952	18 109	18 496	11 691	9 926	16 204	15 718	18 301	19 707
Industrial machinery repairers	12 073	12 248	10 828	12 414	11 986	12 308	10 119	10 075	17 035	17 035	14 615	13 896	16 390	16 656	13 200	11 407
Electronic repairers, communications and industrial equipment	15 458	15 588	14 774	9 875	9 523	9 523	—	10 005	19 413	19 327	20 934	—	16 980	16 349	17 505	18 005
Heating, air conditioning, and refrigeration mechanics	13 055	13 882	8 484	11 349	11 649	12 023	9 343	10 005	19 234	19 261	17 505	16 440	16 288	16 523	16 054	18 943
Other mechanics and repairers	12 467	12 886	10 174	11 349	11 649	12 023	9 343	10 005	19 234	19 261	17 505	16 440	16 288	16 523	16 054	18 943
Construction trades	13 033	13 422	9 291	10 183	11 846	12 189	8 754	9 681	21 004	21 354	18 996	19 035	17 873	18 247	14 342	13 847
Supervisors, construction occupations	17 917	18 275	9 148	17 567	12 875	12 875	—	16 005	24 693	24 753	29 055	24 305	22 612	22 294	39 005	16 505
Carpenters	10 656	11 307	11 347	7 551	10 972	11 369	6 510	13 906	16 172	16 233	16 588	12 544	12 882	13 710	6 143	12 025
Electricians	14 377	14 516	11 347	10 646	14 625	14 843	11 995	14 777	22 113	22 113	22 113	21 019	21 435	21 414	25 029	18 802
Painters, construction and maintenance	8 652	8 646	8 446	9 260	8 699	8 699	5 781	8 049	15 863	16 207	14 477	25 354	18 871	19 032	12 005	7 032
Plumbers, pipefitters, and steamfitters	14 357															

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1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Operation production, craft, and repair occupations—Con.																
Extraction occupations	12 474	13 245	7 481	7 495	18 280	18 280	10 553	10 086	14 230	13 585	21 005	15 596	14 750	14 750	14 996	
Precision production occupations	15 601	16 019	11 958	12 526	15 219	15 219	10 553	10 086	20 681	21 111	15 284	15 596	18 759	18 759	17 170	
Precision production occupations	16 265	16 594	12 972	13 553	17 775	17 775	12 810	12 564	21 514	21 898	16 113	16 589	20 510	20 510	17 077	
Supervisors, production occupations	12 146	12 572	9 567	10 967	16 389	16 389	10 504	9 300	17 012	17 474	12 976	14 476	16 783	16 783	15 007	
Precision manufacturing occupations	15 534	15 847	8 652	10 661	18 732	18 732	15 661	23 245	16 631	16 660	17 051	18 039	16 538	16 538	15 244	
Food and kindred occupations	11 930	12 333	6 005	7 461	12 235	12 235	9 455	7 461	17 032	17 032	13 233	13 039	16 027	16 027	15 281	
Food and kindred occupations	13 461	13 748	6 005	7 461	12 235	12 235	9 455	7 461	17 032	17 032	13 233	13 039	16 027	16 027	15 281	
Food and kindred occupations	11 881	12 529	10 189	8 877	20 182	20 182	11 702	12 933	17 568	18 134	9 186	14 008	16 161	16 161	10 782	
Other precision machine workers	9 916	10 668	5 680	8 877	19 319	19 319	8 939	8 810	10 313	10 313	7 732	6 417	8 429	8 429	9 405	
Precision textile, apparel, and furnishings machine workers	9 381	9 849	8 487	7 985	9 947	9 947	4 211	8 208	14 709	14 709	11 005	6 002	11 119	11 119	9 195	
Precision food production occupations	15 325	18 910	9 150	13 120	18 671	18 671	13 005	13 005	16 404	17 450	18 564	6 005	15 937	15 937	12 975	
Precision inspectors, testers, and related workers	17 059	17 628	10 621	13 120	18 266	18 266	13 005	13 005	22 453	22 742	18 544	10 456	19 631	19 631	11 561	
Plant and system operators	11 178	12 454	7 669	6 793	15 657	15 657	15 465	10 391	15 509	17 097	5 519	10 456	13 369	13 369	11 669	
Other precision production occupations																
Operators, fabricators, and laborers	9 561	10 014	8 436	8 531	8 874	8 874	7 526	6 760	14 657	15 210	12 354	11 582	14 353	14 353	11 184	
Machine operators, assemblers, and inspectors	9 760	10 169	8 695	8 716	8 595	8 595	7 655	6 900	14 957	15 495	12 879	11 881	14 983	14 983	11 744	
Machine operators and tenders, except precision	9 729	10 141	8 671	8 640	8 485	8 485	7 567	6 885	14 977	15 498	12 645	12 002	14 723	14 723	11 828	
Machine operators and plastic working machine operators	9 902	10 369	8 050	6 579	9 350	9 350	10 336	7 881	12 645	13 206	9 246	10 015	14 125	14 125	9 476	
Metallurgical machine operators, n.e.c.	10 906	12 137	6 223	9 678	8 085	8 085	14 005	6 205	12 978	13 798	9 159	15 265	14 854	14 854	5 157	
Fabricating machine operators, n.e.c.																
Metal and plastic processing and woodworking machine operators	9 866	9 962	8 584	8 190	9 708	9 708	8 614	6 989	13 959	14 159	12 386	13 534	14 300	14 300	11 231	
Printing machine operators	9 143	11 692	8 920	8 188	10 782	10 782	7 910	7 540	14 255	15 420	12 069	12 380	15 211	15 211	12 459	
Textile machine operators	9 711	10 076	8 740	8 831	8 309	8 309	7 910	7 540	15 420	15 969	8 349	12 457	13 777	13 777	9 703	
Textile sewing machine operators	9 565	10 076	9 133	7 404	8 046	8 046	7 127	6 481	12 960	13 211	12 297	10 589	10 466	10 466	16 505	
Laundry and dry cleaning machine operators	10 827	12 273	6 383	9 043	7 012	7 012	6 939	5 494	15 464	16 397	13 429	10 099	12 194	12 194	9 296	
Packaging and filling machine operators	8 714	8 889	8 279	8 347	6 628	6 628	7 191	6 514	13 636	14 037	12 868	15 247	9 711	9 711	12 926	
Food, kindred, and other operators, except food	12 603	12 615	11 856	15 471	11 711	11 711	13 028	9 441	20 030	20 230	17 935	11 449	14 562	14 562	8 797	
Other specified machine operators	9 395	9 796	8 160	9 333	9 537	9 537	7 220	7 192	13 893	15 928	12 949	12 055	12 728	12 728	11 313	
Miscellaneous and not specified machine operators	9 819	10 315	8 592	9 146	9 260	9 260	8 365	7 815	15 326	15 928	12 949	12 055	12 422	12 422	9 694	
Fabricators, assemblers, and hand working occupations	10 106	10 689	8 414	7 170	9 391	9 391	8 798	6 785	14 286	15 183	10 800	9 875	11 022	11 022	9 460	
Welders and brazers	12 416	12 774	9 202	10 308	13 077	13 077	9 213	7 935	19 087	19 525	17 132	16 132	12 913	12 913	11 088	
Solders and brazers	8 835	9 590	8 231	8 377	8 172	8 172	9 255	8 328	10 923	10 791	9 995	8 568	10 704	10 704	8 985	
Assemblers	9 908	10 251	8 575	8 276	9 016	9 016	8 190	8 504	14 834	15 241	12 044	12 317	12 473	12 473	10 671	
Hand working occupations	10 067	10 305	9 287	7 150	7 709	7 709	7 987	7 472	15 630	15 986	12 998	12 998	12 688	12 688	8 544	
Production inspectors, testers, samplers, and weighers	9 209	8 658	11 017	10 766	10 614	10 614	9 777	13 265	12 737	13 191	12 059	8 594	5 812	5 812	5 117	
Graders and sorters, except agricultural																
Other production inspectors, testers, samplers, and weighers	10 142	10 440	6 925	6 925	9 484	9 484	10 174	7 410	16 089	16 350	14 070	13 383	13 634	13 634	9 973	
Transportation and material moving occupations																
Transportation occupations	10 340	11 079	8 513	9 034	9 140	9 140	8 120	6 793	15 355	15 888	13 133	12 167	11 787	11 787	10 230	
Motor vehicle operators	13 196	14 540	9 513	8 762	10 704	10 704	9 595	7 531	16 416	17 232	13 278	12 408	11 819	11 819	10 378	
Truck drivers	13 222	14 595	9 502	8 762	10 775	10 775	9 772	7 788	16 453	17 242	13 285	12 557	11 698	11 698	10 258	
Over-the-road truck drivers	13 364	14 721	9 521	8 662	10 775	10 775	9 550	7 324	13 623	13 057	13 928	11 386	12 898	12 898	11 952	
Other motor vehicle operators	13 220	13 581	8 876	9 021	10 027	10 027	7 850	5 321	17 760	15 282	20 587	12 023	12 878	12 878	10 104	
Rail and water transportation occupations	8 759	9 061	10 549	9 233	7 474	7 474	6 982	5 764	14 665	15 028	13 026	12 023	12 705	12 705	9 867	
Material moving equipment operators	16 093	13 578	22 255	18 005	23 110	23 110	15 005	21 005	21 365	21 424	15 335	36 005	18 720	18 720	16 510	
Supervisors, material moving equipment operators	11 886	13 132	8 089	8 089	9 310	9 310	7 644	6 725	16 607	17 429	19 487	13 321	13 981	13 981	16 246	
Crane, hoist, and winch operators	13 233	13 785	9 764	3 605	8 331	8 331	11 945	5 588	16 607	17 429	19 487	13 321	13 981	13 981	16 246	
Excavating, grading, and dozer machine operators	8 637	8 922	7 966	9 197	7 329	7 329	7 564	6 917	14 117	14 492	12 376	11 922	11 447	11 447	9 381	
Other material moving equipment operators																
Handlers, equipment cleaners, helpers, and laborers	8 370	8 777	7 593	7 316	6 794	6 794	6 836	6 146	12 586	13 111	10 906	9 782	8 811	8 811	7 571	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	17 716	17 716	7 997	7 376	14 689	14 689	4 400	6 415	18 182	18 192	18 005	10 447	17 194	17 194	9 491	
Helpers, craft and production	8 886	9 243	5 022	3 933	5 817	5 817	6 228	4 605	13 663	13 966	11 261	9 118	9 643	9 643	12 083	
Construction laborers	7 319	7 831	7 831	8 395	6 798	6 798	6 749	6 862	13 088	13 146	10 359	10 370	7 804	7 804	8 102	
Freight, stock, and material handlers	7 269	7 682	6 215	6 820	5 090	5 090	5 071	5 461	13 890	14 227	12 398	11 338	8 290	7 784	5 862	
Garage and service station occupations, and equipment cleaners	8 191	8 369	8 076	5 888	6 224	6 224	6 440	5 773	10 907	11 655	8 807	9 019	7 751	7 751	6 004	
Hand packers and packagers	8 310	8 850	7 249	7 348	7 217	7 217	7 119	6 432	12 517	12 955	11 170	9 777	8 596	8 596	7 673	
Laborers, except construction																

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Textile mill products			Apparel and other finished textile products			Paper and allied products			Printing, publishing, and allied industries		
	Race			Race			Race			Race		
	Total	White	Black	Total	White	Black	Total	White	Black	Total	White	Black
Employed females 16 years and over	7 569	7 724	7 178	6 112	6 385	5 833	5 443	9 656	8 892	8 554	7 357	8 266
Managerial and professional specialty occupations	12 073	12 220	10 512	13 177	13 096	10 218	10 293	14 122	14 201	13 078	10 653	11 064
Executive, administrative, and managerial occupations	12 216	12 292	11 633	12 260	13 313	10 114	10 770	14 419	14 575	12 926	10 308	11 323
Office and administrative occupations	13 770	13 485	21 182	16 005	14 957	10 972	16 182	17 149	17 232	14 139	21 962	14 333
Financial managers	14 350	14 474	17 796	19 436	16 087	30 278	5 967	16 622	16 483	14 843	21 962	12 065
Managers, marketing, advertising, and public relations	13 282	13 282	7 796	19 436	17 179	17 590	5 967	3 005	3 005	—	—	12 114
Administrators, education and related fields	12 747	13 077	8 860	—	11 972	12 480	9 689	15 885	16 051	16 505	17 005	11 369
Managers, medicine and health	12 944	13 058	11 887	11 474	13 686	10 805	9 181	16 018	16 297	12 166	17 005	18 325
Other specified managers	13 527	13 666	12 027	11 114	14 481	10 805	11 482	16 210	16 469	12 166	9 479	10 186
Managers and administrators, n.e.c.	7 300	7 216	5 255	15 005	9 415	13 092	10 184	7 394	8 042	8 042	2 705	10 259
Self-employed	10 483	10 734	9 785	10 091	10 334	10 402	9 754	12 680	12 711	12 599	8 013	9 652
Management related occupations	10 474	10 481	8 810	7 505	10 098	8 889	9 205	12 645	12 151	12 599	8 013	11 470
Accountants and auditors	10 803	10 939	8 110	7 075	9 858	8 227	9 205	12 245	12 320	12 421	10 405	11 941
Personnel, training, and labor relations specialists	10 770	10 782	10 338	7 752	11 557	10 156	9 812	12 015	12 026	11 463	5 235	12 523
Buyers and purchasing agents	5 985	5 488	7 825	—	7 359	8 741	3 877	10 557	10 120	13 003	5 614	11 886
Inspectors and compliance officers	12 420	12 420	7 825	20 005	11 326	6 425	10 005	15 350	15 397	17 093	11 445	11 143
Other management related occupations	11 832	12 097	8 996	14 472	12 563	12 640	10 389	13 312	13 181	13 493	11 445	10 688
Professional specialty occupations	11 310	11 466	7 393	10 842	10 520	10 394	12 835	13 597	13 376	16 816	25 005	10 197
Engineers, architects, and surveyors	11 310	11 466	7 393	10 842	10 520	10 394	12 835	13 597	13 376	16 816	25 005	10 197
Architects	6 220	6 220	7 393	10 842	10 520	10 394	12 835	13 597	13 376	16 816	25 005	10 197
Engineers	11 240	11 371	7 735	13 805	10 380	6 889	9 742	14 994	14 994	—	—	8 492
Electrical and electronic engineers	12 926	12 926	7 735	13 805	10 380	6 889	9 742	14 994	14 994	—	—	8 492
Industrial engineers	12 103	12 603	5 205	5 285	10 065	10 413	16 091	6 245	6 245	—	—	18 140
Mechanical engineers	—	—	—	—	—	—	—	—	—	—	—	—
Other engineers	—	—	—	—	—	—	—	—	—	—	—	—
Surveyors and mapping scientists	16 550	16 343	—	18 325	15 310	14 744	17 555	16 288	15 954	18 725	33 005	14 010
Computer systems analysts and scientists	17 093	17 093	—	—	12 227	12 227	5 305	17 856	17 856	—	—	13 693
Operations and systems researchers and analysts	8 478	8 478	—	—	6 505	6 505	6 505	14 405	14 405	—	—	12 429
Mathematical scientists	13 663	14 242	12 703	6 005	8 890	2 147	19 005	14 874	15 257	13 329	19 695	13 591
Natural scientists	13 907	14 646	12 703	6 005	8 890	2 147	19 005	15 532	15 991	13 672	19 695	12 544
Chemists, except biochemists	11 041	11 041	—	—	—	—	—	13 039	13 117	12 869	19 695	12 098
Other natural scientists	53 005	53 005	—	—	20 005	20 005	—	13 707	13 948	8 433	19 695	16 679
Health diagnosing occupations	11 551	11 531	12 426	—	10 568	10 150	20 005	13 707	13 948	8 433	19 695	16 679
Health assessment and treating occupations	11 556	11 533	12 426	—	11 435	11 011	20 005	13 707	13 948	8 433	19 695	16 679
Registered nurses	11 325	11 325	—	—	2 905	2 905	—	13 707	13 948	8 433	19 695	16 679
Other health assessment and treating occupations	9 863	10 072	8 977	6 505	8 140	8 260	7 337	13 707	13 948	8 433	19 695	16 679
Teachers, except postsecondary	16 900	16 900	—	—	12 918	12 279	17 985	13 707	13 948	8 433	19 695	16 679
Social scientists and urban planners	11 505	11 505	—	—	—	—	—	—	—	—	—	—
Social and recreation workers	55 725	55 725	—	—	39 941	43 247	27 380	25 428	24 147	6 105	6 890	12 380
Lawyers and judges	12 147	12 147	9 198	11 789	13 435	13 573	10 396	10 450	10 430	7 841	6 890	12 380
Writers, artists, attorneys, and athletes	7 602	7 602	6 518	—	9 200	7 736	7 396	14 213	13 813	18 364	3 645	16 839
Other professional specialty occupations	8 633	8 692	8 168	7 385	7 891	8 005	6 841	10 138	10 189	9 765	9 081	16 839
Technical, sales, and administrative support occupations	9 708	9 708	9 875	4 510	11 597	11 932	9 652	12 419	12 367	12 366	12 991	7 547
Technicians and related support occupations	9 234	9 234	9 011	5 524	4 304	4 304	6 128	10 006	10 006	9 924	10 006	9 924
Health technicians and technicians	9 068	9 068	9 068	—	6 941	6 941	6 941	10 006	10 006	9 924	10 006	9 924
Licensed practical nurses	9 493	9 493	9 493	—	3 133	3 133	5 285	16 320	16 320	16 320	7 933	8 886
Other health technicians and technicians	10 015	9 983	9 731	4 369	11 959	12 269	11 152	12 523	12 523	—	—	8 696
Engineering and science technicians	10 015	9 983	9 731	4 369	11 959	12 269	11 152	12 523	12 523	—	—	8 696
Electrical and electronic technicians	9 446	9 446	9 446	—	12 943	12 943	—	11 848	11 900	11 421	13 107	8 632
Industrial and mechanical engineering technicians	9 446	9 446	9 446	—	12 943	12 943	—	11 848	11 900	11 421	13 107	8 632
Drafting and surveying technicians	10 973	11 271	9 810	—	7 159	7 159	4 974	15 368	15 444	14 679	21 005	8 799
Other engineering and science technicians	9 527	9 525	9 837	4 369	12 679	13 083	10 702	9 279	9 025	10 463	13 287	8 937
Technicians, except health, engineering, and science	10 400	10 541	10 620	10 005	11 313	11 545	8 465	11 520	11 596	10 840	13 287	9 065
Airplane pilots and navigators	9 781	9 781	—	—	15 705	15 705	—	13 594	13 249	15 968	12 755	11 264
Air traffic controllers and broadcast equipment operators	10 777	10 980	—	—	11 728	11 728	—	9 405	8 405	10 005	10 005	8 607
Computer programmers	10 100	10 187	—	10 005	10 648	11 115	8 658	13 597	13 231	17 774	18 005	12 066
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	13 722	13 333	19 754	12 428	10 491

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1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	8 805	8 928	6 478	6 737	8 453	8 735	5 484	5 279	11 626	11 661	11 191	9 712	6 978	6 995	6 985	6 443
Supervisors and proprietors, sales occupations	10 422	10 663	6 250	7 286	11 324	10 988	15 400	7 501	12 043	11 901	—	11 205	7 455	7 335	12 359	6 866
Supervisors and proprietors, sales occupations	10 618	10 890	6 250	7 286	11 484	11 138	15 400	7 072	12 043	11 901	—	11 205	7 346	7 225	12 359	6 866
Sales occupations	1 380	255	—	—	8 471	9 320	12 005	12 005	—	—	—	—	10 248	10 302	9 791	8 905
Self-employed	10 473	10 473	7 286	6 527	8 537	8 081	15 400	4 760	11 778	11 827	11 379	9 593	10 248	10 302	9 791	8 905
Sales representatives, finance and business services	8 779	8 864	—	—	8 280	8 442	—	—	9 336	9 390	6 935	—	3 557	3 512	4 392	4 026
Sales representatives, commodities, except retail	7 516	7 936	3 462	8 405	5 422	5 512	5 443	6 015	11 230	11 431	6 935	—	6 987	6 807	8 282	9 735
Sales workers, retail and personal services	7 576	8 240	3 462	8 405	5 422	5 512	5 443	6 015	11 230	11 431	6 935	—	3 382	3 355	3 939	3 198
Cashiers	6 892	6 892	—	—	6 270	6 016	9 005	7 345	7 492	7 492	—	—	9 979	9 979	—	—
Other sales occupations, retail and personal services	—	—	—	—	4 656	4 621	—	—	—	—	—	—	—	—	—	—
Sales related occupations	8 529	8 590	8 019	7 590	7 733	7 818	7 516	6 925	9 900	9 958	9 490	8 772	7 637	7 635	7 790	6 951
Administrative support occupations, including clerical	11 912	12 016	10 614	10 941	10 523	10 661	7 213	8 384	13 824	13 927	13 539	12 888	12 086	12 052	12 854	10 372
Supervisors, administrative support occupations	8 916	8 913	9 308	8 316	8 743	8 395	10 069	8 462	10 095	10 110	10 235	12 838	8 667	8 594	9 547	7 963
Computer equipment operators	8 911	8 941	8 921	8 826	8 067	8 148	7 424	7 261	10 084	10 142	9 771	7 719	7 667	7 771	8 738	7 090
Secretaries, stenographers, and typists	9 140	9 149	8 921	8 930	8 303	8 379	7 668	6 661	10 333	10 383	10 146	5 470	8 551	8 569	7 408	6 403
Secretaries	7 147	7 222	6 960	7 339	6 451	6 348	7 530	5 941	8 016	8 063	7 721	5 470	5 942	5 784	6 045	6 045
Stenographers and typists	6 788	6 837	6 642	6 482	6 248	6 248	5 901	5 901	7 543	7 596	7 135	5 470	5 942	5 784	6 045	6 045
Receptionists	8 316	7 778	10 991	10 991	6 778	6 778	6 778	6 778	8 748	9 135	10 278	12 288	5 548	5 918	6 808	4 944
Other information clerks	7 804	7 894	7 002	8 091	6 325	6 325	6 388	6 454	8 287	8 338	5 962	12 288	5 548	5 918	6 808	4 944
File clerks	8 299	8 350	8 350	6 758	7 223	7 400	6 385	6 877	10 148	10 057	11 720	5 718	6 154	6 086	6 679	6 012
Other records processing occupations, except financial	8 907	8 964	8 330	7 482	8 963	8 966	8 920	8 442	9 816	9 866	9 652	9 027	8 311	8 309	8 005	8 325
Bookkeepers, accounting, and auditing clerks	8 907	8 950	8 268	7 342	7 866	7 720	8 132	8 972	10 165	10 120	11 248	12 480	10 003	10 062	9 940	10 310
Payroll and timekeeping clerks	8 083	8 284	6 242	6 298	6 908	7 143	5 394	5 384	9 333	9 513	8 768	5 127	7 631	7 589	9 580	6 312
Other financial records processing occupations	7 741	7 995	5 460	5 556	7 236	7 394	6 244	4 139	8 231	8 510	5 082	9 156	6 628	6 578	7 300	5 345
Telephone operators	6 632	6 685	8 540	8 835	6 063	6 183	6 244	5 778	6 913	6 870	7 505	10 005	5 493	5 500	5 588	7 792
Mail and message distributing occupations	8 727	8 857	8 440	10 005	8 009	8 139	6 229	5 607	10 530	10 730	8 735	12 539	9 180	9 222	7 973	7 973
Production coordinators and expeditors	7 466	7 394	8 598	6 515	6 178	6 227	5 850	6 017	10 013	10 031	9 234	8 077	7 465	7 413	9 342	6 915
Traffic, shipping, and receiving clerks	8 008	8 024	6 956	7 613	6 790	7 929	5 242	5 242	10 222	10 412	8 117	9 959	7 579	7 408	9 444	6 110
Stock and inventory clerks	7 761	7 904	6 794	8 336	6 676	6 713	5 482	5 482	9 752	10 196	6 984	13 285	7 694	7 408	9 444	6 110
Other material recording, scheduling, and distributing clerks	9 564	9 812	7 409	10 837	6 676	6 713	5 482	5 482	9 752	10 196	6 984	13 285	7 694	7 408	9 444	6 110
Other material recording, scheduling, and distributing clerks	8 360	8 295	8 588	10 837	8 342	8 785	7 534	12 896	11 526	11 790	8 005	13 005	8 431	8 363	6 632	6 861
Adjusters and investigators	7 971	8 048	7 442	6 279	7 466	7 177	6 718	6 197	9 434	9 215	8 535	15 004	6 702	6 702	7 774	7 891
Data-entry keyers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other administrative support occupations	6 315	6 387	6 290	5 304	5 195	5 388	5 010	4 540	8 878	9 620	6 851	6 795	6 418	6 239	6 921	6 770
Service occupations	7 194	7 039	9 190	6 521	6 094	6 673	5 269	2 805	10 200	11 312	663	—	10 125	9 875	10 415	8 845
Private household occupations	7 194	7 039	9 190	6 521	6 094	6 673	5 269	2 805	10 200	11 312	663	—	10 125	9 875	10 415	8 845
Protective service occupations	6 275	6 331	6 270	5 196	10 205	10 205	5 004	4 557	8 721	9 370	7 083	6 795	9 005	6 053	6 501	6 496
Other protective service occupations	6 992	6 040	8 394	7 085	5 520	5 355	5 158	4 926	7 393	7 987	6 479	—	6 802	6 867	6 375	4 272
Food preparation and service occupations	9 740	10 097	5 005	11 965	5 692	5 944	5 760	6 868	11 282	10 603	20 005	6 795	9 254	9 254	6 354	6 762
Health service occupations	6 094	6 114	6 138	4 519	4 583	4 504	4 819	4 669	8 833	9 568	7 035	—	5 718	5 304	6 638	6 762
Cleaning and building service occupations, except household	6 434	7 508	4 711	—	7 580	7 922	5 304	3 239	8 935	8 935	—	—	7 220	7 691	5 671	9 105
Personal service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	5 178	5 178	—	—	5 157	6 241	—	1 659	10 268	11 018	9 261	—	5 855	4 568	9 763	—
Precision production, craft, and repair occupations	8 960	9 174	8 154	6 855	7 778	8 010	7 082	6 685	11 363	11 566	10 472	8 884	9 357	9 345	9 785	8 088
Mechanics and repairers	8 413	8 483	8 247	5 198	8 339	8 077	8 782	5 596	11 074	11 066	—	11 912	7 868	7 890	7 708	9 409
Supervisors, mechanics and repairers	11 385	11 385	—	—	5 367	5 403	8 45	3 005	1 205	1 205	—	—	17 345	17 345	5 935	—
Automobile mechanics, including body	8 962	8 936	8 938	7 955	7 149	6 853	10 017	4 708	10 116	10 323	7 808	9 005	7 648	8 504	5 935	—
Industrial machinery repairers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	8 224	8 224	—	—	7 005	7 005	—	7 005	15 148	14 005	16 005	—	5 919	5 919	—	—
Other mechanics and repairers	7 395	7 612	6 814	2 772	7 511	6 997	11 811	6 230	13 231	12 892	16 643	15 584	7 810	8 040	6 915	9 438
Construction trades	7 485	7 580	7 151	7 527	5 210	5 119	6 364	3 776	12 438	12 200	16 005	17 431	7 578	7 466	8 821	5 113
Supervisors, construction occupations	7 273	7 043	8 595	—	12 730	12 495	14 045	—	—	—	—	—	12 146	17 005	10 718	—
Carpenters	7 269	7 718	6 190	—	4 891	3 283	6 959	—	—	—	—	—	8 946	7 602	7 775	8 245
Electricians	6 184	6 153	—	—	9 625	9 625	—	—	—	—	—	—	7 775	7 775	—	—
Painters, construction and maintenance	9 957	10 880	—	—	3 863	3 851	5 263	4 015	11 945	12 534	15 005	15 005	6 606	6 348	8 805	3 116
Plumbers, pipefitters, and steamfitters	—	—	—	—	1 643	1 313	2 305	—	20 437	22 505	17 005	—	24 960	24 960	—	—
Other construction trades	7 722	7 738	8 012	6 005	4 425	4 400	6 005	3 621	9 101	7 619	17 005	19 510	4 954	5 250	505	—

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1980—Con.

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	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	7 612	8 483	7 709	7 089	12 481	12 481	6 942	6 714	9 342	11 407	10 100	7 938	9 525	9 525	9 911	8 094
Precision production occupations	10 156	9 391	8 195	7 810	8 894	8 894	8 291	7 840	12 474	12 474	10 413	8 471	9 417	11 462	12 312	9 309
Supervisors, production occupations	8 299	8 126	8 217	6 811	6 005	6 005	5 789	7 719	9 448	9 214	10 431	8 471	11 535	11 462	12 312	9 309
Precision manufacturing occupations	7 805	7 805	8 116	6 811	6 005	6 005	5 789	7 719	9 448	9 214	10 431	8 471	11 535	11 462	12 312	9 309
Food and kindred workers	7 722	7 722	8 116	6 811	6 005	6 005	5 789	7 719	9 448	9 214	10 431	8 471	11 535	11 462	12 312	9 309
Meat and kindred workers	10 241	9 861	10 675	6 811	6 321	6 321	5 414	8 180	11 515	11 474	12 005	7 764	9 267	9 267	9 902	11 808
Other precision meat workers	9 244	9 415	6 218	5 805	10 296	10 296	6 005	7 106	10 108	10 060	10 391	13 096	13 765	13 765	6 174	5 075
Precision textile, apparel, and furnishings machine workers	6 500	6 552	6 313	5 805	5 932	5 932	5 084	5 766	7 833	7 833	—	5 905	6 800	6 927	6 366	—
Precision food production occupations	8 063	9 040	5 295	5 805	4 345	4 345	5 059	4 338	8 758	9 233	—	5 905	7 303	6 486	9 155	—
Precision inspectors, testers, and related workers	7 218	7 251	7 095	805	6 217	7 255	5 313	2 095	12 242	13 386	—	14 635	8 965	8 965	—	—
Plant and system operators	7 721	7 468	7 076	805	9 346	9 303	7 436	11 125	9 892	9 614	—	14 635	8 913	9 748	325	—
Other precision production occupations	7 485	7 648	7 398	10 422	5 346	5 303	7 436	11 125	7 273	7 911	5 675	4 657	7 684	7 586	8 773	7 428
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	7 117	7 190	7 080	7 765	5 656	5 745	5 646	5 143	8 694	8 933	8 035	6 902	7 090	7 012	8 018	8 835
Machine operators, and tenders, except precision	7 139	7 231	7 034	5 765	5 660	5 750	5 646	5 154	8 721	8 962	7 996	6 147	7 234	7 148	8 267	7 043
Metalworking and plastic working machine operators	7 131	7 220	7 040	5 779	5 623	5 717	5 593	5 145	7 780	8 043	7 043	7 275	7 222	7 160	8 043	7 011
Metalworking machine operators, n.e.c.	7 344	7 518	6 775	6 345	7 649	7 953	5 673	7 123	9 156	9 721	6 149	8 418	7 418	7 507	7 661	5 365
Metal and plastic processing and woodworking machine operators	6 142	6 033	6 973	6 435	5 239	5 180	5 107	4 990	9 279	9 336	8 134	—	6 761	6 786	6 005	—
Textile machine operators	6 587	6 647	5 760	8 441	5 869	5 973	5 686	5 851	10 547	10 868	8 906	9 160	7 579	7 312	11 570	7 059
Textile sewing machine operators	6 314	6 479	5 693	8 281	5 894	5 887	5 781	4 835	9 527	10 030	8 599	7 344	7 438	7 344	8 694	7 087
Laundry and dry cleaning machine operators	7 489	7 580	7 337	6 097	6 115	6 183	6 199	5 166	10 026	10 097	10 245	5 573	6 097	5 935	7 000	5 568
Packaging and filling machine operators	6 226	6 338	6 094	5 519	5 597	5 577	5 553	5 153	7 904	7 829	9 235	6 831	6 917	7 019	7 211	5 368
Furnace, kiln, and oven operators, except food	6 385	6 738	5 623	2 316	4 723	5 240	5 257	3 492	10 023	10 023	—	7 772	3 518	3 548	795	—
Other specified machine operators	6 519	6 700	6 715	4 655	5 515	5 655	4 824	3 795	9 042	9 288	8 584	7 772	3 518	3 548	795	—
Miscellaneous and not specified machine operators	6 538	6 846	5 734	4 655	5 585	5 738	4 824	3 795	9 042	9 288	8 584	7 772	3 518	3 548	795	—
Fabricators, assemblers, and hand working occupations	6 177	6 270	6 117	4 377	5 943	6 220	5 672	5 133	6 995	7 158	6 510	6 129	6 156	5 957	7 212	6 287
Welders and cutters	7 369	8 094	5 778	7 205	7 728	8 114	6 716	4 820	10 699	11 717	6 216	2 945	5 876	6 338	6 905	—
Solders and brazers	7 438	8 070	7 354	2 605	5 401	6 256	5 213	2 205	6 216	7 065	6 216	—	5 959	5 939	—	—
Assemblers	6 158	6 275	6 071	4 457	5 288	6 238	5 745	5 288	6 911	7 066	6 480	6 197	6 229	6 073	7 216	6 988
Hand working occupations	5 936	5 837	6 638	2 685	5 515	6 648	5 174	4 433	7 537	7 639	6 916	4 449	5 607	5 373	7 210	6 530
Production inspectors, testers, samplers, and weighers	7 340	7 430	7 111	6 107	5 149	5 107	6 559	5 415	10 080	10 033	10 737	7 841	8 450	8 149	10 748	5 435
Graders and sorters, except agricultural	7 031	7 302	5 972	6 662	5 466	5 371	5 791	4 765	11 801	10 320	19 199	6 511	5 943	6 122	5 362	8 523
Other production inspectors, testers, samplers, and weighers	7 366	7 441	7 224	6 077	6 186	6 146	6 593	5 454	9 856	9 998	9 271	7 976	8 771	8 421	11 268	7 244
Transportation and material moving occupations																
Transportation occupations	7 257	7 314	7 493	5 596	5 683	5 725	6 044	4 914	10 696	11 094	8 910	7 250	5 514	5 451	6 479	8 618
Motor vehicle operators	8 768	8 970	7 354	11 655	9 085	9 256	10 483	7 784	10 332	12 031	6 437	7 815	4 609	4 578	4 892	4 893
Truck drivers	8 524	8 611	7 433	14 005	9 444	9 476	11 524	7 784	10 321	11 968	6 470	7 815	4 609	4 578	4 892	4 893
Driver-sales workers	8 876	9 283	7 433	10 252	10 664	10 664	12 701	7 784	10 321	11 968	6 470	7 815	4 609	4 578	4 892	4 893
Other motor vehicle operators	6 216	6 374	5 074	4 122	4 122	4 122	3 195	3 195	8 805	8 805	—	—	4 550	4 920	5 768	—
Rail and water transportation occupations	11 449	12 689	6 455	14 005	6 584	6 005	3 195	3 195	13 797	14 505	6 005	—	4 550	4 920	5 768	—
Material moving equipment operators	7 072	7 130	7 737	10 355	5 548	5 505	5 441	4 828	10 498	13 065	9 929	7 180	7 083	7 005	8 423	7 511
Supervisors, material moving equipment operators	7 905	7 905	15 475	5 340	5 548	5 505	5 441	4 828	10 498	13 065	9 929	7 180	7 083	7 005	8 423	3 874
Crane, hoist, and winch operators	11 272	10 511	9 938	5 340	10 827	10 827	6 005	12 005	12 005	12 005	11 005	—	11 005	11 005	—	—
Excavating, grading, and dozer machine operators	6 138	6 338	9 938	6 043	6 043	6 043	5 649	4 802	10 744	10 951	6 075	—	—	—	—	—
Other material moving equipment operators	7 029	7 079	7 603	5 340	5 535	5 622	5 649	4 802	10 744	10 951	6 075	—	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	6 803	6 638	7 612	5 836	5 567	5 638	5 525	4 955	8 376	8 583	8 051	6 312	6 385	6 327	6 976	6 030
Helpers, craft and production	10 406	10 642	9 505	8 828	8 726	8 726	9 005	5 392	9 814	10 148	—	—	6 765	6 765	8 392	6 216
Construction laborers	6 833	6 420	7 908	6 037	4 998	5 145	4 392	5 392	8 801	8 801	8 536	8 614	6 235	6 235	1 737	—
Freight, stock, and material handlers	7 637	8 853	10 005	7 097	5 705	6 297	5 983	5 112	9 035	9 347	8 383	6 553	7 106	7 084	7 626	7 563
Garage and service station occupations, and equipment cleaners	6 928	6 716	7 431	7 097	5 650	5 722	5 149	6 750	10 046	8 581	14 862	—	5 891	5 006	7 247	—
Hand packers and packagers	6 696	6 674	6 678	7 327	5 932	5 260	6 593	6 750	10 046	8 581	14 862	—	5 891	5 006	7 247	—
Laborers, except construction	7 111	6 719	9 541	5 398	5 566	5 599	5 313	4 986	8 121	8 359	7 903	5 787	6 559	6 546	6 540	5 899
Laborers	6 325	6 399	6 210	6 398	5 513	5 709	5 398	4 522	8 547	8 630	8 009	7 633	5 968	5 897	7 043	5 975

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over																
Managerial and professional specialty occupations	20 647	21 547	14 373	13 972	16 718	17 380	12 436	10 832	19 040	19 991	13 723	12 386	13 312	14 240	7 809	10 208
Executive, administrative, and managerial occupations	30 646	31 232	20 476	25 433	28 142	28 428	19 807	19 598	31 959	32 424	21 768	25 084	26 930	27 290	13 883	19 984
Offices and administrative, public administration	33 908	34 412	21 990	26 705	30 483	30 483	19 007	19 968	33 789	34 303	21 263	27 406	27 814	28 194	13 935	20 938
Financial managers	42 005	42 005	23 626	31 325	24 005	24 005	17 514	19 327	34 827	33 921	19 585	24 512	30 470	29 651	21 685	17 783
Managers, marketing, advertising, and public relations	31 937	32 276	21 378	30 230	28 843	29 019	17 514	24 230	33 751	33 063	29 020	23 092	30 470	28 944	23 479	26 809
Administrators, education and related fields	34 787	34 996	21 378	46 005	10 821	15 654	1 155	1 155	22 005	22 005	—	—	19 530	19 530	—	—
Managers, medicine and health	30 579	31 287	15 005	24 440	25 082	25 263	20 017	16 786	30 311	30 019	35 537	18 078	23 745	24 055	11 707	15 537
Other specified managers	32 717	33 279	23 714	27 766	32 974	33 261	21 469	21 444	38 482	39 192	19 113	31 439	29 728	30 097	14 971	22 023
Managers and administrators, n.e.c.	37 146	37 678	22 640	27 984	33 593	33 593	21 469	21 469	39 012	39 736	19 181	32 733	31 761	32 127	15 363	22 500
Self-employed	37 394	37 934	22 822	27 984	33 266	33 266	22 330	4 288	19 758	19 758	10 005	16 335	21 324	21 655	13 708	20 489
Management related occupations	23 776	23 642	17 212	20 303	21 785	20 803	15 049	15 199	24 774	25 096	20 127	23 404	19 830	20 340	9 304	16 540
Accountants and auditors	24 421	24 780	19 418	21 002	20 656	20 803	17 309	15 934	23 730	23 993	19 638	23 861	19 830	22 386	9 469	33 185
Personnel, training, and labor relations specialists	22 848	23 152	18 630	21 327	20 681	19 986	15 099	15 099	25 878	26 610	19 835	18 298	19 331	19 997	11 331	14 808
Buyers and purchasing agents	26 121	26 632	21 000	17 114	19 778	19 778	19 778	23 051	24 359	24 402	24 025	19 805	17 822	18 485	8 398	16 298
Inspectors and compliance officers	22 186	22 254	21 430	17 114	19 778	19 778	19 778	23 051	23 393	23 242	22 890	27 697	18 578	20 051	3 605	13 005
Other management related occupations	30 946	31 374	17 388	32 824	15 217	17 995	20 005	23 349	30 887	31 434	19 894	30 689	25 048	25 120	22 365	6 015
Professional specialty occupations	34 072	34 768	18 552	23 519	23 178	23 271	21 492	18 437	28 475	28 801	22 998	19 548	21 132	21 349	13 428	14 382
Engineers, architects, and surveyors	26 389	26 898	18 747	23 536	23 117	23 197	21 894	19 502	28 135	28 400	20 729	19 548	21 132	21 349	13 428	14 382
Architects	26 708	27 117	19 110	11 425	25 120	25 120	21 894	19 502	28 135	28 400	20 729	19 548	21 132	21 349	13 428	14 382
Engineers	25 480	25 510	19 153	23 653	23 115	23 195	21 894	19 502	28 135	28 400	20 729	19 548	21 132	21 349	13 428	14 382
Civil engineers	26 716	27 124	19 067	19 005	22 853	23 487	21 894	19 502	28 135	28 400	20 729	19 548	21 132	21 349	13 428	14 382
Electrical and electronic engineers	26 599	27 043	18 067	19 005	22 853	23 487	21 894	19 502	28 135	28 400	20 729	19 548	21 132	21 349	13 428	14 382
Industrial engineers	25 123	25 615	15 507	17 321	24 399	24 642	24 979	18 088	27 681	28 415	20 729	23 274	22 344	22 713	29 005	—
Mechanical engineers	23 913	24 225	15 805	19 524	20 754	20 752	24 979	18 088	27 681	28 415	20 729	23 274	22 344	22 713	29 005	—
Other engineers	25 819	26 158	18 782	25 913	23 644	23 764	21 116	14 510	23 399	23 603	16 991	17 178	24 788	24 656	11 185	13 909
Surveyors and mapping scientists	27 377	27 809	19 350	24 804	23 644	23 764	21 116	14 510	23 399	23 603	16 991	17 178	24 788	24 656	11 185	13 909
Computer systems analysts and scientists	15 159	20 005	11 005	—	18 005	18 005	—	—	29 573	29 800	23 481	24 960	23 695	23 857	15 605	20 177
Operations and systems researchers and analysts	24 875	25 055	21 961	21 713	24 192	23 948	30 005	—	26 702	26 759	24 665	15 138	21 728	22 736	13 005	17 005
Mathematical scientists	24 854	25 314	18 818	35 340	23 343	23 982	—	26 445	27 856	28 147	18 005	24 465	26 266	26 266	—	—
Natural scientists	27 348	27 700	18 810	21 917	21 333	21 333	—	—	28 816	28 575	18 005	24 465	26 266	26 266	—	—
Chemists, except biochemists	23 515	23 955	17 891	19 785	22 857	23 107	16 802	17 166	27 110	27 571	21 683	8 837	19 960	20 078	16 005	20 151
Other natural scientists	23 190	23 616	18 034	20 439	22 204	22 376	16 802	18 645	25 708	26 181	20 605	8 837	19 960	20 078	16 005	20 151
Health diagnosing occupations	25 351	25 785	16 027	11 802	32 979	34 187	—	2 375	31 756	31 741	33 005	—	19 714	19 856	8 411	20 151
Health assessment and treating occupations	47 094	48 147	30 966	45 689	49 461	49 461	—	—	55 765	55 765	—	—	72 005	72 005	—	—
Registered nurses	28 914	29 214	8 746	21 148	17 953	17 953	—	—	16 219	16 219	—	—	23 111	23 111	—	—
Other health assessment and treating occupations	28 307	28 307	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other health assessment and treating occupations	23 359	24 696	8 746	21 148	17 953	17 953	—	—	16 219	16 219	—	—	23 111	23 111	—	—
Teachers, except postsecondary	20 489	20 709	18 532	15 068	19 524	21 456	—	—	22 705	22 526	26 935	—	16 664	19 079	—	6 315
Social scientists and urban planners	33 297	33 663	18 594	20 716	27 257	26 289	14 005	18 655	34 840	34 757	47 505	11 025	20 343	20 343	—	—
Social and recreation workers	33 259	34 039	—	26 925	18 439	19 469	—	12 005	10 224	—	—	—	8 405	8 405	—	—
Lawyers and judges	49 946	50 453	37 010	57 440	46 377	46 611	43 005	12 005	45 867	46 326	33 560	8 588	50 332	50 332	—	—
Writers, artists, entertainers, and athletes	24 994	25 383	16 581	15 375	20 167	20 263	16 005	12 749	23 866	24 122	22 764	16 484	17 292	17 767	7 719	12 315
Other professional specialty occupations	26 535	27 810	15 016	21 755	15 225	15 035	16 005	—	15 924	15 924	—	—	9 037	9 037	—	—
Technical, sales, and administrative support occupations	19 839	20 334	14 852	15 182	17 503	18 005	12 310	12 812	19 666	20 452	13 192	12 574	16 728	17 270	9 481	12 255
Technicians and related support occupations	19 201	19 549	15 002	16 300	16 984	17 228	14 034	14 137	20 663	21 049	17 020	17 048	15 527	15 587	12 079	15 855
Health technicians and technicians	22 670	23 096	19 676	20 319	31 722	30 551	—	—	24 435	24 435	—	—	5 480	5 480	—	—
Licensed practical nurses	16 177	16 177	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other health technicians and technicians	22 808	23 265	19 676	20 319	31 722	30 551	—	—	24 435	24 435	—	—	5 480	5 480	—	—
Engineering and science technicians	18 440	18 809	15 085	15 924	16 329	16 586	13 958	13 698	20 207	20 507	17 622	16 611	14 683	14 792	12 089	13 992
Electrical and electronic technicians	19 451	19 673	15 757	16 857	17 917	18 729	12 329	10 325	21 212	21 434	15 048	15 077	17 120	17 120	—	—
Industrial and mechanical engineering technicians	19 130	19 561	13 108	22 005	18 552	18 453	—	—	18 675	18 883	1 705	15 077	17 207	17 207	—	—
Drafting and surveying technicians	17 834	18 112	12 988	15 494	15 111	15 409	5 974	14 885	18 579	19 015	17 423	17 923	13 301	13 286	11 908	13 195
Other engineering and science technicians	18 431	18 812	15 195	15 895	16 425	16 652	14 958	13 453	20 448	20 705	18 130	16 044	16 328	16 620	12 196	14 561
Technicians, except health, engineering, and science	22 799	23 074	18 454	19 969	18 245	18 447	14 415	17 324	22 059	22 770	15 551	18 941	16 227	18 126	12 005	27 037
Airplane pilots and navigators	28 595	28 595	—	—	27 818	27 818	—	—	26 301	26 301	—	—	20 891	20 891	—	—
Air traffic controllers and broadcast equipment operators	17 961	17 343	20 330	—	—	—	—	—	25 205	25 205	—	—	1 722	1 722	—	—
Computer programmers	19 397	19 418	20 529	19 320	17 740	17 824	17 342	15 103	20 108	20 358	18 935	17 733	17 599	17 599	—	—
Other technicians, except health, engineering, and science	24 257	24 697	17 303	20 383	18 106	18 355	13 272	20 655	23 058	24 324	14 288	20 121	17 873	17 591	12 005	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	23 673	23 953	17 931	18 724	24 256	24 524	14 260	23 194	25 225	25 927	13 216	13 802	20 960	21 615	9 157	15 231
Supervisors, proprietors, sales occupations	27 860	28 300	17 963	18 542	23 937	24 114	19 622	28 104	25 216	25 382	19 420	—	16 148	17 453	9 243	13 128
Salaried	28 001	28 459	17 963	18 542	23 983	24 174	19 622	28 104	25 216	25 382	19 420	—	16 148	17 453	9 243	13 128
Self-employed	22 253	22 253	—	—	23 179	23 179	—	—	14 431	14 054	—	—	11 505	12 005	—	—
Sales representatives, finance and business services	22 162	23 491	14 672	14 715	23 179	23 179	—	—	30 847	31 254	16 505	13 775	22 269	22 626	8 948	15 417
Sales representatives, commodities, except retail	23 502	23 765	17 987	19 090	24 387	24 653	12 587	19 725	25 395	26 379	13 506	14 086	22 609	22 954	—	8 895
Sales workers, retail and personal services	17 319	17 607	21 005	13 738	17 076	17 903	—	—	1 003	1 197	2 005	14 086	7 628	7 472	—	8 895
Cashiers	17 994	18 765	21 005	15 986	17 076	17 903	—	—	1 003	1 197	2 005	14 086	7 628	7 472	—	8 895
Other sales occupations, retail and personal services	16 981	17 060	—	9 414	16 571	16 571	—	—	12 566	12 404	16 505	—	15 474	15 474	—	505
Sales related occupations	8 309	8 309	—	4 405	4 085	4 085	—	—	15 569	15 569	—	—	5 852	7 425	—	—
Administrative support occupations, including clerical	16 831	17 376	13 213	12 642	14 750	15 184	11 569	11 190	16 193	16 931	11 822	10 769	14 151	14 626	9 422	11 080
Supervisors, administrative support occupations	22 371	22 371	—	—	18 423	18 423	—	—	22 467	22 796	17 679	14 269	18 072	18 610	9 938	13 973
Computer equipment operators	17 140	18 002	15 695	16 482	15 025	16 014	2 932	13 376	16 325	17 714	11 517	10 227	14 949	15 064	13 142	17 005
Secretaries, stenographers, and typists	20 611	17 645	43 800	—	16 195	17 187	10 857	9 505	19 941	20 643	10 005	—	16 305	18 032	8 360	4 369
Stenographers and typists	18 852	18 699	14 272	—	17 550	18 101	16 338	9 505	21 256	22 260	10 005	—	17 352	18 894	8 360	3 365
Receptionists	26 914	22 274	53 866	—	10 127	11 789	6 472	—	10 534	10 534	—	16 275	5 993	6 897	—	4 833
Other information clerks	14 838	14 013	27 005	—	12 582	5 505	17 005	—	13 270	12 005	—	—	13 365	13 365	—	—
Other records processing occupations, except financial	22 057	22 081	18 739	23 955	16 848	15 001	13 346	10 005	22 532	22 532	—	15 372	14 940	15 213	9 546	—
File clerks	15 572	15 705	14 179	10 595	14 850	15 001	11 067	10 005	22 532	22 532	—	15 372	14 940	15 213	9 546	—
Other records processing occupations, except financial	15 842	16 449	14 035	12 148	12 320	12 621	—	11 994	12 538	13 099	10 084	11 124	14 940	15 213	9 546	10 746
Bookkeepers, accounting, and auditing clerks	16 162	16 407	11 486	14 979	15 576	15 469	15 854	11 128	17 982	18 728	11 688	10 628	14 093	13 816	—	14 834
Payroll and timekeeping clerks	16 924	16 924	—	—	13 476	13 335	23 005	9 685	17 171	17 845	13 634	9 224	12 251	12 251	—	11 379
Other financial records processing occupations	17 994	17 702	14 761	5 755	15 458	16 296	8 765	9 685	19 728	18 612	7 595	12 887	16 386	16 708	—	—
Telephone operators	20 189	21 487	14 561	18 902	12 042	15 782	6 805	13 071	10 436	12 035	7 975	6 005	10 430	27 005	—	—
Mail and message distributing occupations	10 246	10 308	10 046	11 852	9 947	10 438	7 493	12 940	19 226	19 523	10 799	13 617	8 476	7 291	14 916	3 099
Production coordinators and expeditors	18 657	19 572	14 258	13 025	16 397	16 783	12 940	12 106	19 226	19 523	10 799	13 617	14 777	15 038	10 638	22 403
Traffic, shipping, and receiving clerks	13 251	13 544	12 240	11 126	14 104	12 505	10 204	10 228	10 068	10 317	9 314	8 251	11 088	11 506	8 037	9 165
Stock and commodity clerks	14 493	14 906	11 548	8 480	14 104	13 374	12 524	12 204	13 406	13 648	12 335	9 230	13 261	13 609	9 439	12 171
Other clerical recording, scheduling, and distributing clerks	15 065	15 703	10 547	8 480	13 578	13 760	13 482	9 793	20 628	18 103	16 155	2 525	14 239	15 090	7 624	11 851
Advisers and investigators	20 793	20 818	18 018	14 306	19 790	19 888	21 707	14 005	20 355	20 355	12 005	—	18 796	18 796	—	16 005
Data-entry keyers	14 485	15 280	4 625	13 187	14 064	15 030	10 462	7 525	16 577	17 187	11 645	—	27 722	30 468	16 934	16 005
Other administrative support occupations	19 243	19 991	11 630	13 783	16 305	16 568	14 313	7 525	17 836	18 665	13 220	15 495	15 594	16 117	10 002	11 605
Service occupations	14 265	14 883	11 583	10 643	12 476	12 772	11 475	7 788	12 516	12 968	11 032	9 434	9 951	10 474	6 497	8 364
Private household occupations	15 283	15 637	12 810	10 584	13 146	13 186	12 591	6 993	13 832	13 914	13 229	14 273	9 089	9 563	5 805	12 705
Protective service occupations	14 654	14 943	12 512	9 662	12 792	12 836	12 061	6 993	13 914	13 063	12 354	14 203	8 089	8 563	5 805	12 705
Guards	20 473	21 480	15 117	13 512	19 388	20 070	16 238	7 816	21 466	21 466	21 346	14 203	15 362	15 362	12 400	13 372
Other protective service occupations	13 964	14 637	11 355	10 649	12 340	12 680	11 343	7 816	12 019	12 583	12 346	8 873	15 362	15 362	12 400	13 372
Service occupations, except protective and household	12 373	12 825	9 170	11 500	9 408	9 628	9 003	4 685	12 019	12 583	12 129	10 988	11 071	11 135	10 005	7 552
Food preparation and service occupation	23 377	25 398	20 005	10 485	18 343	18 343	—	7 808	12 042	12 932	10 277	8 839	10 424	10 977	6 772	7 835
Health service occupations	13 945	14 618	11 148	14 720	13 335	13 522	—	12 005	12 346	12 809	10 401	3 505	10 220	11 377	7 211	14 413
Cleaning and building service occupations, except household	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	12 504	13 080	10 796	8 214	11 793	14 254	7 843	3 791	8 739	10 563	3 087	9 939	11 458	12 520	6 414	8 486
Precision production, craft, and repair occupations	20 160	20 487	17 196	16 566	17 401	17 702	14 502	13 691	19 632	20 007	16 973	14 612	14 985	15 348	10 999	11 293
Mechanics and repairers	18 260	18 437	16 621	16 544	15 932	16 229	12 343	13 030	24 505	24 505	15 615	15 545	16 212	16 490	12 153	13 213
Supervisors, mechanics and repairers	24 650	24 859	23 002	14 676	19 430	20 053	11 937	13 937	20 302	20 302	16 184	23 922	20 030	20 030	5 525	—
Automobile mechanics, including body	17 015	17 203	13 234	14 279	15 586	15 586	17 739	13 619	17 181	17 227	13 553	16 169	14 189	14 461	9 511	7 709
Industrial machinery repairers	17 360	17 617	15 125	15 835	15 193	15 433	11 262	13 019	16 599	16 594	16 604	15 795	14 206	14 176	15 087	11 182
Electronic repairers, communications and industrial equipment	17 026	17 420	12 033	18 038	16 815	16 815	—	—	19 904	21 161	7 623	23 595	20 772	21 255	16 005	—
Heating, air conditioning, and refrigeration mechanics	19 238	19 350	18 390	28 694	16 757	19 857	—	—	16 460	16 460	10 072	18 718	9 771	10 467	14 545	20 285
Other mechanics and repairers	18 561	19 642	17 868	17 286	16 757	17 141	12 827	12 122	18 535	19 080	15 228	16 692	16 721	17 221	11 087	14 365
Construction trades	19 006	19 351	15 045	15 737	18 457	18 927	15 439	12 385	20 428	20 428	17 483	19 216	12 338	12 519	9 879	9 833
Supervisors, construction occupations	24 980	25 068	20 287	22 035	22 527	24 907	12 143	26 005	25 384	25 586	17 483	25 784	19 383	19 506	11 983	13 827
Carpenters	17 080	17 370	14 395	13 255	15 037	15 128	15 921	15 449	18 171	18 253	17 582	14 951	10 728	10 876	10 194	9 390
Electricians	19 590	19 617	17 383	21 110	18 817	18 996	18 404	15 257	21 352	21 636	17 515	19 319	16 043	16 488	10 742	12 955
Painters, construction and maintenance	12 333	12 917	10 243	9 834	8 415	13 547	8 415	5 767	16 735	16 976	13 940	16 816	12 450	12 491	8 757	9 504
Plumbers, pipefitters, and steamfitters	19 714	20 079	15 577	17 321	20 070	20 306	15 933	17 723	16 976	17 723	13 781	21 646	12 052	12 491	7 323	9 465
Other construction trades	18 077	18 348	17 124	14 739	14 999	14 756	16 422	13 318	17 640	18 007	16 704	16 035	12 593	11 074	8 080	9 352

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over—Con.

	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	16 668	16 687	15 546	21 655	9 935	9 992	9 816	—	19 885	19 997	18 797	18 531	13 704	14 190	8 187	5 005
Precision production occupations	21 496	21 917	17 988	16 795	17 909	18 205	15 396	14 053	20 063	20 507	17 258	13 417	15 743	16 161	11 180	12 475
Supervisors, production occupations	22 432	22 670	18 701	17 064	18 450	18 798	16 788	14 641	21 863	22 224	18 380	14 795	17 743	18 216	12 375	14 537
Precision manufacturing occupations	17 245	17 610	14 129	15 221	16 574	16 820	12 229	12 811	18 591	19 011	15 806	14 311	14 632	15 269	8 907	10 888
Food and kindred workers	17 674	17 825	14 999	23 431	18 023	18 180	16 491	13 668	17 966	17 964	14 005	14 706	14 743	14 981	9 105	14 358
Machinists	16 989	17 421	13 999	14 742	16 045	16 434	12 059	13 096	18 338	18 660	14 463	14 406	13 426	14 001	9 105	10 112
Other metal workers	17 525	17 612	16 259	12 338	18 815	18 824	18 415	9 931	18 626	19 079	12 982	13 509	10 750	10 640	12 940	7 587
Other precision metal workers	18 466	18 695	15 033	12 338	13 622	14 028	6 615	5 033	19 630	19 404	21 223	17 146	16 367	17 146	8 177	14 549
Precision textile, apparel, and furnishings machine workers	13 029	13 230	11 713	13 991	8 836	8 952	10 288	9 985	8 485	8 697	7 551	7 883	9 251	10 001	5 108	7 414
Precision food production occupations	13 197	13 423	13 531	10 005	12 143	12 115	17 005	9 443	8 962	9 129	8 005	5 830	11 154	12 394	9 171	—
Precision inspectors, testers, and related workers	18 245	19 851	13 176	10 005	15 832	16 621	11 060	11 830	20 214	19 519	28 362	21 811	13 828	13 366	16 641	—
Plant and system operators	20 332	20 547	18 471	17 583	20 550	21 081	12 457	13 686	21 811	22 054	19 302	12 811	17 333	18 257	10 703	15 231
Other precision production occupations	15 635	15 814	13 974	17 005	14 045	13 944	15 363	12 332	15 284	15 248	15 119	8 973	11 257	11 390	9 178	10 233
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	14 655	15 236	12 909	11 096	12 793	13 178	11 768	9 307	13 150	13 535	12 501	9 800	10 823	11 516	7 949	9 347
Machine operators, tenders, and inspectors	15 242	15 841	13 447	11 383	12 931	13 310	11 986	9 350	13 101	13 571	13 135	9 417	10 622	11 155	7 659	9 105
Metallurgy and plastic working machine operators	15 316	15 912	13 577	11 559	12 896	13 274	11 879	9 285	12 811	12 938	13 464	9 167	10 363	11 081	7 665	9 407
Metallurgy and plastic working machine operators	14 125	14 615	13 615	9 656	12 370	12 589	8 426	8 426	8 598	8 689	7 238	10 809	10 970	11 851	9 232	8 526
Fabricating machine operators, n.e.c.	14 607	14 218	17 922	18 205	12 285	12 008	12 005	15 803	8 598	8 689	7 238	10 809	10 871	10 346	12 382	11 409
Metal and plastic processing and woodworking machine operators	11 282	11 565	9 839	9 042	11 140	11 426	10 086	8 787	9 869	10 258	9 056	6 766	10 053	10 479	7 358	9 602
Printing machine operators	14 291	14 858	12 519	10 483	13 718	13 782	13 496	9 639	12 497	13 766	5 848	13 480	10 928	11 165	7 704	6 704
Textile machine operators	14 004	14 238	13 434	10 893	12 548	13 314	8 567	8 814	11 608	11 963	5 511	13 480	8 779	9 217	7 072	9 232
Textile sewing machine operators	12 677	12 272	13 190	5 606	10 003	10 739	8 970	6 942	9 912	9 644	7 648	13 480	8 683	9 062	7 285	7 285
Laundry and dry cleaning machine operators	12 940	12 722	14 567	—	18 505	18 505	—	10 757	9 269	9 269	—	6 505	14 340	14 791	10 968	14 568
Packaging and filling machine operators	12 746	13 383	10 887	10 068	11 813	12 292	6 620	10 333	13 431	13 911	12 836	10 429	12 527	12 949	11 996	7 271
Food, kind, and other operators, except food	18 349	18 769	15 644	17 751	15 638	15 893	14 656	9 951	19 612	20 113	16 866	17 206	13 197	14 263	9 050	16 173
Other specified machine operators	14 174	16 766	13 938	12 783	12 670	12 955	11 414	9 281	10 814	10 857	12 279	8 402	10 967	11 491	8 473	8 894
Miscellaneous and not specified machine operators	14 638	15 262	13 276	10 854	13 368	13 824	12 349	9 287	14 855	15 346	14 496	9 833	10 886	11 726	8 236	9 329
Fabricators, assemblers, and hand working occupations																
Welders and cutters	14 465	15 193	12 148	9 869	11 834	12 182	11 673	8 771	13 385	14 142	10 590	9 718	9 842	10 232	7 731	7 767
Solders and brazers	18 097	18 417	15 942	15 168	14 557	14 785	14 046	10 600	19 557	20 171	15 252	16 448	12 654	13 023	9 797	9 249
Assemblers	12 858	12 858	12 858	3 993	15 621	15 621	15 621	3 005	8 215	11 085	5 755	7 165	9 340	9 837	15 305	7 330
Hand working occupations	10 855	11 400	10 515	7 448	11 162	11 470	11 370	8 520	9 007	9 375	8 113	7 746	9 111	9 466	7 257	7 664
Production inspectors, testers, samplers, and weighers	13 288	13 169	16 033	10 693	12 288	12 478	12 433	7 398	10 494	10 308	14 120	8 245	12 840	12 762	12 416	1 992
Graders and sorters, except operators	15 523	15 919	14 204	11 595	15 003	15 332	13 847	12 573	16 017	16 730	13 066	12 903	12 916	13 621	8 113	12 619
Other production inspectors, testers, samplers, and weighers	10 599	12 147	6 255	6 666	15 426	15 817	13 809	16 005	10 777	16 730	8 769	12 903	12 916	13 621	7 726	12 937
Transportation and material moving occupations																
Transportation occupations	15 686	16 034	14 565	11 852	14 960	15 285	13 829	12 477	16 904	17 457	14 465	13 349	12 729	13 103	9 549	11 347
Motor vehicle operators	14 709	15 318	12 327	11 786	13 616	13 973	12 057	10 458	15 606	16 360	13 112	14 088	12 592	13 538	8 173	10 551
Motor vehicle operators	15 490	16 140	12 747	11 956	15 628	15 986	13 712	11 994	16 455	17 101	13 770	16 804	13 010	14 034	8 451	10 008
Truck drivers	15 441	16 110	12 673	11 884	15 641	15 998	13 794	11 822	16 204	16 861	13 506	16 660	12 996	14 023	8 462	9 784
Driver-sales workers	15 407	16 093	12 508	11 665	15 865	16 180	14 054	12 394	16 260	16 921	13 561	16 889	13 036	14 099	8 509	9 555
Other motor vehicle operators	15 527	16 614	10 927	14 837	12 036	11 671	13 538	—	16 621	13 921	11 414	—	11 574	15 697	4 409	—
Rail and water transportation occupations	16 224	16 376	15 682	13 880	13 270	14 269	10 425	8 403	15 821	16 586	12 779	10 820	10 462	10 794	6 961	11 715
Other water transportation occupations	17 723	17 682	20 218	22 405	13 859	13 936	7 884	24 545	20 368	20 579	20 326	21 381	14 520	15 021	5 063	20 818
Supervisors, material moving equipment operators	13 968	14 515	11 964	11 633	12 363	12 936	11 102	9 651	14 609	15 411	12 524	10 793	12 195	13 071	7 877	10 901
Material moving equipment operators	21 266	21 630	17 825	22 295	15 208	15 342	—	11 965	19 639	19 077	22 005	—	13 163	13 954	1 885	20 125
Crane, hoist and winch operators	17 743	17 973	16 459	14 194	12 132	12 847	8 902	6 531	18 095	22 300	17 862	21 148	16 647	18 075	8 060	16 999
Excavating, grading, and dozer machine operators	14 164	15 108	10 396	15 489	12 323	13 955	12 315	7 685	19 717	17 717	15 300	3 205	13 670	14 276	5 744	13 799
Other material moving equipment operators	13 570	14 083	11 786	11 280	12 323	12 643	11 149	9 791	13 935	14 646	12 181	10 559	11 717	12 532	7 939	10 677
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	12 082	12 439	11 435	9 503	11 379	11 777	10 583	8 338	11 447	11 945	10 252	9 228	9 323	10 076	6 581	9 397
Helpers, craft and production	26 278	26 089	29 005	8 684	19 087	20 747	13 474	13 051	18 918	19 446	12 805	—	16 447	19 826	4 457	10 005
Construction laborers	12 161	12 672	10 237	8 228	10 605	10 718	10 961	8 251	12 834	13 115	12 805	9 923	8 435	8 641	7 556	9 717
Freight, stock, and material handlers	13 694	15 188	8 228	8 359	13 904	14 436	13 968	12 838	12 305	13 567	11 597	12 871	10 157	10 767	8 129	8 129
Garage and service station occupations, and equipment cleaners	12 448	13 046	10 423	9 393	11 841	12 070	11 173	9 036	13 254	13 706	12 054	9 999	9 830	10 732	6 038	11 277
Hand packers and packagers	12 550	12 510	13 155	8 784	12 275	12 571	11 386	8 421	10 535	11 377	8 472	5 940	10 583	10 922	9 000	2 731
Hand packers and packagers	11 167	11 666	10 287	8 399	9 358	9 961	8 163	6 979	9 530	9 578	9 709	6 627	8 704	9 219	6 889	7 551
Laborers, except construction	12 047	12 196	12 026	10 220	11 612	12 063	10 560	8 618	11 048	11 609	9 745	9 357	8 832	9 457	6 977	8 468

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	10 705	10 877	10 006	7 926	8 480	8 647	8 032	6 514	7 879	7 895	8 249	6 340	7 856	8 116	6 350	6 449
Managerial and professional specialty occupations	16 059	16 133	15 392	14 058	13 431	13 463	13 396	11 847	14 610	14 639	14 624	12 721	13 049	13 179	7 594	8 239
Executive, administrative, and managerial occupations	15 816	15 936	14 695	13 621	13 446	13 470	13 368	13 018	14 066	14 088	14 127	10 851	13 512	13 676	6 958	9 569
Offices and administrators, public administration	5 005	5 005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	17 833	18 051	14 611	14 236	15 834	15 996	11 505	7 605	14 330	14 607	6 472	—	15 816	15 816	—	—
Managers, marketing, advertising, and public relations	18 479	18 489	18 917	14 733	9 192	10 398	7 785	—	12 928	12 914	14 405	10 005	17 749	17 772	13 605	15 005
Administrators, education and related fields	12 288	12 288	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	18 232	18 538	15 031	8 193	13 745	13 662	16 043	17 523	15 742	15 677	—	17 013	12 891	13 021	9 375	15 442
Other specified managers	17 030	17 470	13 171	15 979	14 320	14 345	15 108	13 234	14 014	14 140	—	8 241	14 159	14 394	5 213	6 156
Managers and administrators, n.e.c.	17 309	17 494	13 212	16 004	14 423	14 455	15 108	13 234	14 455	14 643	—	8 241	14 131	14 361	5 414	6 165
Salaried	7 432	5 739	10 005	15 305	—	—	—	—	7 861	7 231	—	—	14 384	14 656	3 755	2 478
Self-employed	14 001	13 973	14 954	12 279	12 155	12 118	12 514	11 988	14 058	14 001	14 551	11 742	11 442	11 491	8 792	11 087
Management related occupations	13 481	13 168	16 895	12 395	11 697	11 643	12 472	12 714	13 675	13 692	13 589	9 846	11 088	11 171	7 799	8 943
Accountants and auditors	15 491	15 811	13 583	11 870	13 692	13 956	7 851	11 691	15 337	15 055	17 918	16 004	11 208	11 214	—	—
Personnel, training, and labor relations specialists	13 429	13 453	12 760	13 160	13 397	13 243	10 821	10 821	13 170	12 990	14 521	11 095	12 754	12 799	8 005	15 305
Buyers and purchasing agents	10 998	10 988	9 588	8 123	14 705	12 987	21 005	—	8 550	8 550	—	—	11 335	—	—	11 335
Inspectors and compliance officers	16 691	16 777	16 325	18 272	13 669	13 494	15 034	—	16 166	16 515	—	12 227	9 713	9 104	16 405	—
Other management related occupations	16 388	16 417	16 285	14 968	13 395	13 440	13 492	7 828	15 789	15 804	16 197	16 739	10 304	10 351	14 005	3 802
Professional specialty occupations	15 507	15 557	13 089	18 894	13 466	13 630	11 478	14 180	15 326	15 824	22 069	13 337	11 951	11 951	—	—
Engineers, architects, and surveyors	15 513	15 564	13 089	18 894	18 545	18 545	11 878	14 180	15 326	15 824	22 069	13 337	11 951	11 951	—	—
Architects	13 796	13 796	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers	20 141	21 824	6 357	30 005	13 688	13 688	—	—	13 326	14 921	22 069	13 337	11 951	11 951	—	—
Electrical and electronic engineers	14 865	15 012	14 006	12 176	21 355	21 355	—	—	13 825	14 921	18 005	8 115	9 373	9 373	—	—
Industrial engineers	17 474	18 197	15 189	12 471	21 071	21 071	—	—	9 832	9 234	—	—	16 245	16 245	—	—
Mechanical engineers	15 678	15 586	14 397	16 727	14 856	15 033	—	26 725	18 559	18 559	27 623	22 475	12 241	12 241	—	—
Other engineers	7 005	7 005	—	—	—	—	—	—	17 077	16 589	—	—	12 485	12 485	—	—
Surveyors and mapping scientists	18 055	18 282	16 040	17 904	16 478	16 799	13 498	—	18 029	17 333	19 187	—	12 941	12 941	—	—
Computer systems analysts and scientists	16 239	16 628	17 818	—	16 986	16 986	—	—	20 416	20 975	12 598	—	13 817	13 817	—	—
Operations and systems researchers and analysts	14 844	14 769	13 106	8 531	12 068	11 899	15 005	13 605	14 433	14 433	10 158	10 005	8 437	8 605	6 005	—
Mathematical scientists	16 762	16 847	16 500	16 555	15 036	14 839	14 789	1 100	15 932	16 675	—	—	9 779	9 399	16 005	—
Natural scientists	16 356	16 380	16 148	15 678	15 703	15 324	14 789	1 100	16 314	17 196	7 699	10 005	7 275	2 627	16 005	—
Chemists, except biochemists	17 807	17 807	17 780	18 554	11 079	10 870	—	1 100	13 453	12 761	16 922	—	10 196	10 196	—	—
Other natural scientists	28 365	28 517	12 005	—	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	16 079	15 944	17 591	6 530	13 415	13 363	18 005	—	14 921	14 972	13 205	15 005	12 256	12 256	—	3 210
Health assessment and treating occupations	16 102	15 938	19 305	5 005	13 415	13 363	18 005	—	14 921	14 972	13 205	15 005	12 256	12 256	—	3 210
Registered nurses	15 942	15 979	12 105	7 639	—	—	—	—	—	—	—	—	—	—	—	—
Other health assessment and treating occupations	10 155	9 401	12 456	—	9 523	10 389	9 435	—	8 484	8 349	12 005	6 367	8 301	8 301	—	—
Teachers, except postsecondary	17 990	17 997	20 263	13 514	10 539	10 539	—	—	16 576	16 236	19 879	18 005	13 708	13 708	—	—
Social scientists, urban planners	7 290	7 290	—	—	14 955	14 955	—	—	9 595	9 770	14 005	11 330	—	—	—	—
Social and related workers	26 427	27 569	15 427	44 005	25 196	25 196	—	—	26 417	27 053	18 005	24 005	17 005	—	17 005	—
Lawyers and judges	14 397	14 396	17 633	11 038	12 185	12 351	12 705	1 239	15 486	15 543	18 630	22 483	9 488	9 550	11 005	4 186
Writers, artists, entertainers, and athletes	14 814	14 855	14 034	—	11 433	—	—	—	14 131	14 404	—	11 165	5 000	5 000	—	—
Other professional specialty occupations	10 846	10 852	10 829	9 717	9 523	9 553	9 554	8 042	9 707	9 655	10 055	8 939	8 366	8 434	7 223	6 889
Technical, sales, and administrative support occupations	12 630	12 466	12 496	11 306	11 363	11 399	11 273	10 039	13 248	12 934	14 685	12 581	9 966	10 072	1 105	10 005
Technicians and related support occupations	13 481	14 127	11 995	10 388	11 565	11 769	11 075	—	16 261	16 145	16 659	—	12 225	11 392	—	—
Health technologists and technicians	8 852	8 581	8 201	—	14 989	14 783	15 635	—	10 925	9 214	14 005	—	—	—	—	—
Licensed practical nurses	14 183	14 696	13 666	10 388	7 052	7 052	7 085	—	17 958	17 878	18 318	—	12 225	11 392	—	—
Other health technologists and technicians	12 261	12 226	12 302	11 592	10 949	10 917	11 303	8 480	12 784	12 623	13 209	12 533	9 132	9 346	1 105	10 005
Engineering and science technicians	12 794	12 852	13 188	8 745	10 801	10 801	—	9 705	8 440	8 962	10 005	—	11 589	11 369	—	—
Electrical and electronic technicians	13 225	12 917	17 159	10 370	10 370	10 370	—	—	10 270	10 270	—	—	7 936	7 946	—	—
Industrial and mechanical engineering technicians	11 248	10 844	18 405	18 187	9 245	9 393	7 488	—	11 691	11 421	—	—	—	—	—	—
Drafting and surveying technicians	12 272	12 249	12 248	11 528	11 172	11 140	—	8 165	13 151	13 027	13 283	12 533	9 366	7 946	—	—
Other engineering and science technicians	14 246	14 051	14 532	10 084	12 503	12 637	11 135	14 941	14 057	13 418	17 359	13 005	11 125	11 127	1 105	10 005
Technicians, except health, engineering, and science	13 628	13 742	13 117	—	8 695	8 695	—	—	14 934	14 934	—	—	10 005	10 005	—	—
Airplane pilots and navigators	13 736	13 736	—	17 648	14 095	14 095	—	14 941	14 957	13 728	19 975	—	10 938	10 935	—	—
Air traffic controllers and broadcast equipment operators	14 680	14 318	16 039	7 502	11 001	10 483	13 161	—	12 796	12 879	14 931	13 005	12 327	12 327	—	—
Computer programmers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	12 331	12 454	11 052	9 703	9 405	9 900	7 059	6 976	8 776	8 811	8 220	7 710	9 403	9 528	4 457	5 375
Supervisors and proprietors, sales occupations	14 005	14 179	9 494	8 855	12 279	12 704	—	3 411	10 003	8 769	17 025	—	11 346	11 302	13 880	6 865
Self-employed	41 005	41 005	3 245	—	11 589	13 960	2 105	—	12 451	12 445	—	—	17 050	17 050	—	—
Sales representatives, finance and business services	12 820	13 375	3 245	10 446	11 589	13 960	2 105	—	12 451	12 445	—	—	17 050	17 050	—	—
Sales representatives, commodities, except retail	12 534	12 637	11 445	10 446	11 589	13 960	2 105	—	12 451	12 445	—	—	17 050	17 050	—	—
Sales representatives, except retail	9 503	9 504	10 328	4 372	6 915	8 078	3 666	8 539	7 484	8 911	7 477	7 615	9 595	9 622	1 180	4 467
Sales workers, retail and personal services	10 718	10 774	11 248	5 077	6 354	7 749	3 666	6 755	7 484	7 268	7 302	8 328	5 354	5 580	1 349	10 005
Cashiers	6 580	6 806	4 150	2 408	8 767	8 767	—	6 755	7 464	6 617	9 358	—	6 688	9 277	1 025	—
Other sales occupations, retail and personal services	8 330	8 176	10 005	16 405	—	—	—	—	—	—	—	—	—	—	—	—
Other sales occupations	10 470	10 490	10 477	9 505	9 408	9 432	9 507	8 034	9 555	9 536	9 413	8 930	8 284	8 349	7 358	6 975
Administrative support occupations, including clerical	14 282	14 281	14 752	13 539	12 998	12 882	11 699	9 505	13 843	13 573	17 234	10 404	11 677	11 857	3 080	6 240
Supervisors, administrative support occupations	10 722	10 673	11 366	10 033	9 795	10 083	10 626	4 775	9 706	9 771	9 237	9 274	9 323	9 358	9 768	10 005
Computer equipment operators	10 686	10 716	10 483	9 914	9 405	9 640	9 176	9 023	10 021	10 041	9 776	9 833	8 209	8 255	6 504	6 958
Secretaries, stenographers, and typists	10 871	10 904	10 638	9 471	9 831	9 857	9 560	9 611	10 207	10 236	9 721	10 159	8 302	8 352	6 604	6 744
Secretaries	8 978	8 847	9 736	7 471	7 168	7 717	8 116	6 595	8 700	8 441	8 779	8 472	6 648	6 543	5 706	8 678
Stenographers and typists	7 832	7 851	7 421	7 292	7 305	7 014	10 196	5 349	7 946	7 813	8 744	7 205	7 543	7 503	5 972	4 793
Receptionists	10 078	10 161	8 935	5 383	8 486	8 339	7 305	5 531	8 791	8 043	12 523	7 018	6 698	6 741	11 005	7 005
Other information clerks	8 327	8 221	8 245	7 292	8 486	8 339	7 305	5 531	8 791	8 043	12 523	7 018	6 698	6 741	11 005	7 005
File clerks	10 155	10 097	11 107	10 021	9 276	9 330	9 806	8 915	9 279	9 238	8 713	8 232	8 233	8 336	7 893	3 265
Other records processing occupations, except financial	10 049	10 078	10 063	9 498	9 568	9 334	11 393	9 281	9 658	9 478	9 500	9 844	8 330	8 360	7 794	7 794
Bookkeepers, accounting, and auditing clerks	11 120	11 105	11 124	11 880	9 902	9 881	10 172	8 734	8 666	8 478	10 527	8 027	9 035	9 155	8 065	6 880
Payroll and timekeeping clerks	9 561	9 564	9 754	6 933	7 449	7 369	8 624	7 100	9 203	9 149	9 527	5 219	8 293	8 344	6 171	10 052
Other financial records processing occupations	9 608	9 646	9 270	7 270	7 681	7 762	8 095	6 693	7 313	7 065	8 639	5 876	7 241	6 207	12 282	—
Telephone operators	7 717	7 990	6 608	6 637	7 681	7 762	8 095	6 693	7 313	7 065	8 639	5 876	7 241	6 207	12 282	—
Mail and message distributing occupations	11 169	11 359	10 701	8 712	10 323	10 555	7 750	7 755	9 066	9 066	8 519	5 046	7 677	7 533	9 892	7 997
Production coordinators and expeditors	9 521	9 460	8 896	9 229	8 683	8 777	9 102	7 703	9 002	9 013	10 308	9 901	8 487	8 116	7 166	4 945
Production, shipping, and receiving clerks	10 429	10 446	10 350	10 188	8 729	8 777	9 102	7 703	9 002	9 013	10 308	9 901	8 487	8 116	7 166	4 945
Stock and inventory clerks	10 451	9 607	13 768	8 715	8 259	8 253	8 103	7 241	9 566	9 165	10 308	8 855	7 980	8 334	9 971	8 142
Other material recording, scheduling, and distributing clerks	11 801	11 843	11 179	11 048	11 221	10 923	18 945	8 618	9 566	9 832	8 334	9 960	8 512	8 394	9 971	8 142
Adjusters and investigators	9 541	9 605	11 498	8 898	9 216	8 415	8 415	8 618	9 566	9 832	8 334	9 960	8 512	8 394	9 971	8 142
Date-entry keyers	10 428	10 342	11 498	9 175	8 441	8 415	8 415	8 618	9 566	9 832	8 334	9 960	8 512	8 394	9 971	8 142
Other administrative support occupations	8 615	8 810	8 024	5 526	8 151	8 021	8 845	6 947	6 696	6 523	7 408	4 272	5 900	6 296	4 680	4 369
Service occupations	10 329	10 785	9 297	3 980	11 765	11 604	12 243	7 938	7 876	7 223	10 059	1 889	7 370	6 957	11 439	1 675
Private household occupations	10 459	10 967	9 297	3 980	11 765	11 604	12 243	7 938	7 876	7 223	10 059	1 889	7 370	6 957	11 439	1 675
Protective service occupations	4 880	4 880	7 904	5 561	7 858	7 749	8 437	6 812	6 581	6 457	7 150	4 497	5 641	4 040	4 330	—
Guards	8 430	8 581	7 904	5 561	7 858	7 749	8 437	6 812	6 581	6 457	7 150	4 497	5 641	4 040	4 330	—
Other protective service occupations	11 860	12 110	10 837	7 725	10 646	11 527	4 067	5 307	5 845	5 553	6 457	6 175	6 175	6 758	4 616	—
Food preparation and service occupations	8 384	8 722	7 785	5 733	7 798	7 526	8 767	6 005	6 470	6 545	6 893	3 714	5 679	6 215	4 465	4 587
Health services occupations	8 585	8 585	7 845	5 538	6 517	6 547	—	6 005	6 870	6 464	7 891	7 088	3 998	3 610	7 005	—
Cleaning and building service occupations, except household	9 463	9 597	10 505	1 610	6 766	6 899	6 005	—	5 956	4 142	10 005	—	6 121	6 184	5 620	3 224
Personal service occupations	12 440	12 652	12 052	8 589	9 963	10 376	8 518	6 818	8 226	8 280	9 100	6 101	7 953	8 165	6 463	6 908
Farming, forestry, and fishing occupations	11 892	12 496	9 452	9 974	10 729	11 344	7 413	9 563	8 950	8 873	10 289	5 783	7 877	8 416	6 218	3 672
Precision production, craft, and repair occupations	17 839	17 839	7 705	—	12 910	13 438	9 215	11 850	12 122	4 699	67 855	6 015	10 489	10 489	—	—
Mechanics and repairers	7 491	7 419	10 582	9 030	10 563	10 918	7 689	12 174	8 728	8 974	2 925	21 605	8 857	8 587	—	—
Supervisors, mechanics and repairers	12 344	12 643	10 582	—	9 885	9 885	—	—	—	—	—	—	—	—	—	—
Automobile mechanics, including body	14 706	14 706	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial machinery repairers	12 950	12 950	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment	11 498	12 284	9 065	10 315	10 634	11 483	7 052	5 903	9 001	9 034	9 764	5 269	7 442	8 122	6 218	3 672
Heating, air conditioning, and refrigeration mechanics	6 390	5 885	11 904	5 390	8 255	8 199	8 000	7 296	11 512	11 241	12 266	10 121	6 972	7 084	5 228	9 344
Other mechanics and repairers	218	218	4 685	—	10 344	11 060	8 672	—	6 199	6 199	—	6 445	8 252	8 481	6 582	9 763
Construction trades	12 396	13 938	13 916	—	12 142	12 162	12 162	—	16 749	17 578	10 194	13 822	8 005	8 005	6 027	3 974
Supervisors, construction occupations	14 935	14 935	5 144	5 390	7 421	7 398	8 099	6 069	13 289	12 466	19 576	4 110	5 514	5 514	3 992	—
Carpenters	5 599	5 599	13 821	—	10 869	10 188	12 862	—	8 877	8 877	—	17 505	7 766	7 766	5 489	—
Electricians	13 821	13 821	9 061	—	6 131	4 847	—	—	—	—	—	—	—	—	—	—
Painters, construction and maintenance	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	12 038	12 593	6 765	5 085	11 498	11 498	8 694	6 469	13 605	16 666	8 866	5 987	8 409	8 639	7 354	6 639
Precision production occupations	13 022	13 299	12 567	8 595	10 328	10 328	10 477	8 694	8 071	8 146	8 146	8 071	10 169	10 169	10 169	8 850
Supervisors, production occupations	14 070	14 347	13 511	8 848	11 378	11 378	10 477	8 694	10 023	10 023	10 023	7 288	10 545	10 545	10 545	6 090
Precision metalworking occupations	8 013	8 326	8 844	6 317	7 774	7 774	7 920	5 107	7 919	7 920	7 920	7 288	8 299	8 299	8 299	5 556
Food and kindred workers	7 856	12 235	5 165	6 505	8 844	8 844	10 005	5 131	8 518	12 140	8 496	6 289	5 766	5 766	5 766	5 556
Food and kindred workers	8 181	8 625	8 929	6 265	7 308	7 308	6 584	5 131	8 518	8 754	8 496	6 289	5 766	5 766	5 766	5 556
Textile mill workers	12 005	12 005	—	6 595	9 481	9 481	—	—	9 636	9 636	—	—	9 227	9 227	—	4 937
Other machine workers	6 951	6 552	14 802	3 964	7 498	7 498	—	—	4 080	2 271	1 705	11 503	10 534	11 851	5 485	8 915
Precision textile, apparel, and furnishings machine workers	5 857	5 911	6 775	3 964	6 167	6 167	—	—	5 271	5 271	—	4 415	3 047	5 481	8 850	—
Precision food production occupations	3 697	4 585	1 565	6 188	7 415	7 415	—	—	9 133	9 133	—	7 823	8 489	8 489	—	—
Precision inspection, testing, and related workers	11 514	11 141	11 760	16 574	10 645	10 645	—	—	15 776	16 601	11 212	7 823	7 704	7 078	6 910	—
Plant and system operators	11 810	12 055	10 225	9 005	12 598	12 598	—	—	8 986	8 986	5 005	3 338	7 122	7 035	8 571	5 855
Other precision production occupations	8 367	6 735	16 744	6 459	7 598	7 598	—	—	6 549	6 549	—	5 643	6 992	7 175	6 335	6 295
Operators, fabricators, and laborers	8 474	8 594	8 662	6 459	7 609	7 609	—	—	6 447	6 447	—	5 643	6 992	7 175	6 335	6 295
Machine operators, assemblers, and inspectors	8 523	8 628	8 796	6 445	7 609	7 609	—	—	6 447	6 447	—	5 643	6 992	7 175	6 335	6 295
Machine operators and tenders, except precision	8 742	8 812	9 156	6 376	7 461	7 461	—	—	6 080	6 080	—	5 744	7 104	7 104	6 490	6 490
Metalworking and plastic working machine operators	7 920	8 145	6 287	5 560	7 874	8 001	6 867	8 365	6 136	5 964	6 005	6 732	6 284	6 284	5 949	5 949
Fabricating machine operators, n.e.c.	8 148	8 697	6 116	7 505	9 364	9 147	8 805	7 005	6 164	6 210	6 005	6 732	6 994	6 994	—	4 005
Metal and plastic processing and woodworking machine operators	6 684	6 686	6 743	6 135	7 602	7 571	8 171	7 355	6 357	6 228	6 079	5 774	6 593	6 801	5 621	6 306
Printing machine operators	8 840	8 810	10 914	5 501	7 996	7 996	—	—	6 533	6 533	—	5 744	7 147	8 041	3 226	6 306
Textile machine operators	10 773	11 113	9 667	8 818	7 914	7 914	—	—	7 419	7 686	6 884	6 732	7 147	8 041	3 226	6 306
Textile sewing machine operators	7 396	7 234	8 177	5 689	6 115	6 212	6 021	6 408	5 821	5 891	6 147	5 720	7 266	7 450	6 222	5 596
Laundry and dry cleaning machine operators	8 302	10 171	3 018	6 998	7 404	7 399	6 778	4 671	2 949	4 787	996	—	8 065	9 040	7 005	5 464
Packaging and filling machine operators	8 546	8 362	8 635	6 430	7 495	7 873	5 916	4 015	12 339	13 474	4 475	22 005	6 502	7 830	4 151	5 927
Food, kindred, and allied workers, except food	13 983	14 395	12 945	8 488	7 495	7 873	6 721	5 291	6 019	6 095	5 429	5 694	7 162	7 077	7 628	5 927
Food, kindred, and allied workers, except food	10 186	10 639	9 624	6 488	7 527	7 756	7 053	5 944	7 722	7 646	8 686	5 767	7 447	7 290	6 735	5 927
Other specified machine operators	8 725	8 773	9 324	6 318	7 527	7 756	7 053	5 944	7 722	7 646	8 686	5 767	7 447	7 290	6 735	5 927
Miscellaneous and not specified machine operators	7 178	7 264	7 460	5 920	7 257	7 161	10 288	6 385	5 963	5 943	6 192	5 458	6 590	7 019	6 401	5 177
Fabricators, assemblers, and hand working occupations	9 069	9 192	8 740	7 889	7 785	7 980	8 204	6 215	5 056	5 056	6 164	2 247	6 890	6 890	7 357	6 600
Welders and others	8 806	10 636	5 131	7 889	7 785	7 980	8 204	6 215	5 056	5 056	6 164	2 247	6 890	6 890	7 357	6 600
Solders and brazers	7 154	7 223	7 466	5 885	7 240	7 157	9 298	6 357	5 954	5 929	6 213	11 505	7 797	7 356	8 515	7 005
Assemblers	6 487	7 028	6 639	5 085	6 237	6 157	8 550	6 449	5 776	5 706	6 218	5 589	6 635	6 771	6 398	5 133
Hand working occupations	9 805	9 947	9 303	8 534	8 750	8 764	8 606	8 205	7 755	7 610	9 052	4 745	5 012	5 051	5 543	5 505
Production inspectors, testers, samplers, and weighers	8 519	8 619	11 225	4 514	7 549	7 847	6 387	3 144	5 462	5 845	4 371	6 177	7 907	8 031	7 058	9 901
Graders and sorters, except agricultural	9 849	9 989	9 447	8 747	8 790	8 794	8 673	8 706	7 985	7 762	10 030	5 132	8 376	8 507	7 528	12 599
Other production inspectors, testers, samplers, and weighers	10 598	10 464	12 056	7 889	9 061	9 180	8 204	8 706	7 985	7 762	10 030	5 132	8 376	8 507	7 528	12 599
Transportation and material moving occupations	9 704	9 185	8 307	7 960	9 818	9 713	12 280	8 349	8 366	8 492	8 569	6 130	8 006	8 411	6 683	6 600
Transportation occupations	9 495	9 861	8 307	7 960	9 818	9 713	12 280	8 349	8 366	8 492	8 569	6 130	8 006	8 411	6 683	6 600
Motor vehicle operators	9 475	9 771	8 629	7 287	9 809	9 704	12 280	—	9 905	9 812	10 544	11 541	8 734	9 096	8 040	8 504
Truck drivers	4 794	4 669	5 105	6 765	9 335	9 556	11 167	—	9 506	9 272	10 544	3 505	9 211	9 635	8 040	8 504
Driver-sales workers	10 845	11 305	6 765	—	12 360	11 000	15 175	—	10 493	10 493	—	16 005	5 718	6 140	—	—
Other motor vehicle operators	8 894	17 488	—	—	12 360	11 000	15 175	—	10 493	10 493	—	16 005	5 718	6 140	—	—
Rail and other transportation occupations	10 772	10 511	13 085	7 875	8 963	9 123	7 841	8 349	8 153	8 310	8 221	5 830	7 733	8 138	6 306	8 721
Material moving equipment operators	15 512	15 512	—	—	13 541	13 541	—	—	8 502	8 502	—	—	10 676	11 116	4 403	—
Supervisors, material moving equipment operators	12 928	12 928	—	—	9 066	9 066	—	—	10 805	10 805	—	—	10 676	11 116	4 403	—
Cone, hoist and winch operators	7 268	8 033	4 105	6 251	8 066	8 066	—	—	10 805	10 805	—	—	9 940	13 093	3 635	8 721
Extruding, grading, and dozer machine operators	10 773	10 474	13 151	8 027	8 972	9 108	7 841	8 331	8 135	8 307	8 114	5 830	7 572	7 915	6 414	8 721
Other material moving equipment operators	8 043	8 232	7 844	6 384	7 335	7 525	7 248	5 474	6 773	6 647	7 684	5 036	6 756	7 111	5 568	5 910
Handlers, equipment cleaners, helpers, and laborers	16 665	16 665	—	—	6 885	6 885	—	—	8 352	8 319	—	—	5 787	5 302	6 846	—
Supervisors, handlers, equipment cleaners, and laborers	8 767	9 459	7 814	4 658	8 851	9 441	9 398	6 719	8 352	8 319	—	—	5 787	5 302	6 846	—
n.e.c.	8 759	9 309	8 082	—	8 123	10 429	1 205	—	14 997	14 159	8 284	6 100	5 787	5 302	6 846	—
Helpers, craft and production	9 179	9 292	8 947	10 434	8 219	8 463	7 378	5 472	7 336	7 120	8 284	5 025	7 530	8 167	5 372	8 226
Construction laborers	9 313	9 394	9 349	4 829	9 878	10 087	10 168	—	6 190	5 561	8 499	3 715	7 373	7 753	6 708	4 095
Freight, stock, and material handlers	7 838	7 969	7 851	6 268	7 037	7 884	7 281	5 572	6 394	6 230	7 340	4 974	5 907	6 946	5 427	4 191
Garage and service station occupations, and equipment cleaners	8 147	8 529	7 361	6 655	7 643	7 892	7 281	4 945	6 958	7 031	7 340	4 593	6 682	6 946	5 427	5 754
Hand packers and packagers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Furniture and fixtures			Stone, clay, glass, and concrete products			Primary iron and steel industries			Primary nonferrous industries		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
United States												
Employed males 16 years and over												
Managerial and professional specialty occupations	12 643	13 389	8 614	16 442	17 135	11 625	19 709	20 528	15 781	18 156	18 850	13 576
Executive, administrative, and managerial occupations	25 796	26 227	13 181	27 255	27 536	15 614	30 045	30 452	19 475	30 089	30 512	19 963
Officials and administrators, public administration	21 118	21 508	14 185	28 994	29 236	16 024	32 778	33 261	20 405	33 093	33 549	23 225
Financial managers	21 005	21 435	14 185	31 440	31 637	22 600	32 978	33 001	20 305	31 846	32 143	29 835
Managers, marketing, advertising, and public relations	24 186	24 361	14 634	32 351	32 469	13 438	36 629	36 715	—	33 048	33 186	18 396
Administrators, education and related fields	31 886	31 886	29 838	22 539	22 539	34 017	31 964	31 964	—	34 945	34 945	—
Managers, medicine and health	—	—	—	26 154	26 328	6 132	28 128	28 701	21 789	—	—	—
Other specified managers	21 116	21 692	13 722	30 401	30 638	17 074	36 879	37 518	19 321	29 278	29 441	17 686
Managers and administrators, n.e.c.	28 613	29 025	16 964	31 358	31 607	17 361	37 187	37 837	19 487	35 321	35 947	25 616
Self-employed	19 978	20 499	13 534	18 681	18 875	3 005	27 029	27 094	10 005	35 067	35 428	25 616
Management related occupations	18 387	18 100	12 722	—	—	—	24 253	24 419	21 084	—	—	—
Accountants and auditors	18 520	18 815	12 340	19 801	19 956	14 380	24 737	24 922	18 890	22 347	22 635	18 387
Personnel, training, and labor relations specialists	18 741	18 964	14 405	19 294	19 446	14 301	23 737	23 922	17 454	21 499	21 833	19 799
Buyers and purchasing agents	16 994	17 444	11 613	20 893	21 272	13 246	26 161	26 518	23 209	23 322	23 859	16 370
Instructors and compliance officers	19 028	19 299	10 005	18 785	18 788	18 679	22 828	22 905	17 026	21 696	21 763	15 700
Other management related occupations	15 005	15 005	—	23 694	23 914	14 148	25 351	25 302	22 588	22 276	22 276	34 005
Professional specialty occupations	19 465	19 465	—	—	—	—	25 364	25 503	22 630	27 754	28 125	—
Engineers, architects, and surveyors	18 544	19 030	9 257	22 118	22 356	14 921	25 361	25 608	17 925	24 108	24 330	19 745
Architects	18 813	18 986	12 656	23 301	23 383	19 224	25 436	25 647	18 297	23 927	24 053	19 416
Engineers	24 609	26 734	7 005	24 760	24 760	—	23 789	25 479	20 005	11 945	13 605	20 917
Civil engineers	18 694	18 840	12 656	23 321	23 399	19 317	25 445	25 655	18 275	23 986	24 077	19 851
Electrical and electronic engineers	19 293	21 728	425	28 857	29 271	—	23 960	24 328	14 563	32 575	33 109	27 005
Industrial engineers	21 265	21 265	—	22 239	22 443	13 893	26 486	26 614	22 718	34 526	34 646	22 591
Mechanical engineers	18 187	18 162	21 405	21 566	21 471	18 437	24 119	24 190	19 619	21 539	21 539	19 886
Other engineers	20 882	21 333	3 205	23 670	23 711	21 119	25 794	25 940	20 426	25 719	25 046	25 928
Surveyors and mapping scientists	18 125	18 379	1 095	14 311	17 573	18 062	22 321	22 321	16 826	18 066	17 412	11 385
Computer systems analysts and scientists	22 759	22 759	—	22 827	22 784	13 005	24 648	24 531	26 780	—	—	—
Operations and systems researchers and analysts	14 424	17 197	8 005	21 915	21 707	40 005	23 783	23 707	37 455	22 845	22 372	15 005
Mathematical scientists	28 924	28 924	—	18 489	18 489	—	25 514	26 400	21 805	20 390	21 846	—
Natural scientists	28 839	29 431	—	21 143	21 604	13 580	23 077	23 452	16 526	22 130	22 224	17 741
Chemists, except biochemists	34 177	35 437	—	20 483	20 727	17 580	23 443	22 826	16 526	18 338	22 014	18 940
Other natural scientists	15 652	15 652	—	24 576	26 215	8 317	30 985	31 736	—	28 254	24 482	13 135
Health diagnosing occupations	—	—	—	51 698	51 698	—	47 675	47 228	15 005	39 162	41 287	10 005
Health assessment and treating occupations	—	—	—	19 537	19 537	—	22 191	22 640	—	24 683	29 703	13 805
Registered nurses	—	—	—	21 005	21 005	—	27 439	27 439	—	18 662	23 518	—
Other health assessment and treating occupations	—	—	—	17 335	17 335	—	20 206	20 664	15 005	35 005	35 005	—
Teachers, except postsecondary	21 824	32 521	10 155	16 235	16 937	9 170	21 903	21 971	20 842	17 003	17 531	5 005
Social scientists and urban planners	31 282	31 282	—	27 090	27 649	—	36 178	37 702	—	32 952	34 026	—
Lawyers and judges	14 014	14 014	—	14 753	10 500	19 005	17 585	17 585	—	56 706	59 205	—
Writers, artists, entertainers, and athletes	26 752	26 752	—	40 927	40 927	—	37 189	37 189	—	21 580	22 862	—
Other professional specialty occupations	16 184	16 977	7 880	15 538	15 964	6 978	22 360	23 546	5 709	14 460	17 295	12 207
Technical, sales, and administrative support occupations	15 023	15 023	—	14 890	16 691	8 325	23 055	23 055	—	—	—	—
Technicians and related support occupations	17 443	18 353	8 857	17 764	18 172	12 728	20 679	21 037	16 947	18 150	18 510	13 273
Health technologists and technicians	14 340	14 307	9 314	18 892	20 531	13 511	19 712	19 819	18 433	17 978	18 192	16 096
Licensed practical nurses	29 645	29 645	—	19 523	15 005	—	9 259	9 259	17 996	26 005	26 005	21 980
Other health technologists and technicians	—	—	—	19 210	21 198	—	20 158	20 275	17 996	19 483	19 333	—
Engineering and science technicians	29 645	29 645	—	15 731	15 923	12 525	19 363	19 436	18 385	17 984	17 888	15 449
Electrical and electronic technicians	13 999	14 216	7 684	18 773	19 327	20 316	22 848	22 916	20 787	19 297	19 717	15 449
Industrial and mechanical engineering technicians	11 213	12 446	6 002	18 773	19 327	11 005	20 348	21 038	15 001	19 297	17 802	14 722
Drafting and surveying technicians	13 633	13 633	—	14 106	14 146	—	17 323	17 323	15 537	23 200	23 200	12 005
Other engineering and science technicians	13 687	13 908	8 219	15 904	16 193	12 150	19 989	19 989	17 786	16 933	17 257	15 493
Technicians, except health, engineering, and science	15 933	15 806	—	16 284	16 193	—	21 452	21 708	19 035	17 440	17 724	15 813
Airplane pilots and navigators	15 401	14 565	14 565	19 203	19 474	16 169	21 452	21 708	19 035	19 259	19 146	19 366
Air traffic controllers and broadcast equipment operators	20 227	20 227	—	25 972	25 972	—	26 591	26 591	—	27 386	27 386	—
Computer programmers	10 176	10 176	—	22 025	22 025	—	19 462	19 462	—	20 347	20 347	—
Other technicians, except health, engineering, and science	14 573	14 573	—	18 606	18 936	16 736	20 677	20 961	16 496	17 826	18 643	12 713
Persons of Spanish origin may be of any race.	16 057	16 366	10 905	18 870	19 077	15 773	21 895	22 149	21 051	19 945	19 810	23 567

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Furniture and fixtures					Stone, clay, glass, and concrete products					Primary iron and steel industries					Primary nonferrous industries				
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																				
Sales occupations																				
Supervisors and proprietors, sales occupations	26 807	27 258	10 878	11 925	22 212	22 408	14 098	17 141	25 290	25 523	18 390	17 347	23 614	23 809	16 564	14 537				
Salaried	21 904	22 267	3 798	7 253	24 879	25 228	14 197	24 576	29 033	29 834	19 924	19 005	21 717	21 739	9 181	9 333				
Self-employed	22 211	20 619	3 005	5 000	14 137	14 288	7 727	22 005	60 279	60 279	19 924	4 106	10 948	22 404	9 181	9 510				
Sales representatives, finance and business services	20 435	20 404	4 505	13 415	14 137	14 288	7 727	22 005	21 514	22 936	18 238	18 621	23 990	28 422	21 108	17 090				
Sales representatives, commodities, except retail	17 526	17 526	12 371	13 415	14 137	14 288	7 727	22 005	21 514	22 936	18 238	18 621	23 990	28 422	21 108	17 090				
Sales representatives, retail and personal services	11 544	13 500	5 410	13 415	14 137	14 288	7 727	22 005	21 514	22 936	18 238	18 621	23 990	28 422	21 108	17 090				
Cashiers	9 065	8 421	10 138	—	13 479	15 559	12 076	14 045	20 397	21 918	20 191	20 005	14 984	11 904	—	9 638				
Other sales occupations, retail and personal services	12 793	15 395	10 344	—	14 377	14 500	10 675	14 045	19 075	18 933	20 191	20 005	15 206	15 311	—	9 638				
Sales related occupations	12 036	12 036	—	—	4 683	4 683	—	—	12 919	12 511	14 005	—	3 135	3 135	—	—				
Administrative support occupations, including clerical	11 647	12 154	8 435	8 986	15 473	15 903	12 218	14 808	19 979	20 393	16 418	16 549	16 251	16 547	13 961	12 286				
Supervisors, administrative support occupations	15 293	15 565	13 734	9 502	20 139	20 283	19 488	14 808	25 881	26 253	18 673	17 528	21 033	21 472	17 292	13 286				
Computer equipment operators	14 147	14 032	15 221	13 333	16 575	16 506	16 790	14 026	19 553	19 754	16 888	20 304	16 262	16 464	17 476	13 502				
Secretaries, stenographers, and typists	27 269	28 935	7 274	—	29 096	29 096	—	—	19 306	20 355	8 171	40 770	18 401	19 469	9 903	—				
Secretaries	32 403	33 841	7 005	—	32 131	32 131	—	—	19 004	20 327	8 171	40 770	22 234	22 934	9 903	—				
Stenographers and typists	9 488	9 922	7 505	—	8 646	8 646	—	—	17 773	18 614	11 514	14 045	12 299	13 472	9 903	—				
Receptionists	10 853	10 811	—	—	3 660	3 660	—	—	20 036	20 036	17 528	22 542	12 505	13 505	—	6 244				
Other information clerks	11 348	11 611	4 763	2 605	15 369	15 606	15 181	8 500	18 408	18 849	8 896	15 759	14 694	13 814	—	11 557				
File clerks	12 756	14 314	5 817	9 948	14 091	14 816	10 762	23 592	18 408	19 442	19 483	15 759	16 002	17 273	16 325	17 561				
Other records processing occupations, except financial	12 947	12 998	12 754	2 961	15 191	15 497	9 934	10 174	20 820	21 172	18 201	15 673	16 762	16 515	16 224	11 225				
Bookkeepers, accounting, and auditing clerks	13 594	13 594	—	10 505	15 125	15 073	16 255	6 995	19 267	19 287	19 924	18 942	15 985	17 902	9 480	10 005				
Payroll and timekeeping clerks	12 409	13 593	—	2 825	15 272	16 026	—	—	19 973	19 973	20 327	11 857	16 733	16 922	21 215	9 445				
Other financial records processing occupations	7 377	7 377	—	3 333	22 841	22 841	—	—	14 296	14 301	25 005	12 861	17 726	16 834	21 215	9 445				
Telephone operators	8 106	8 721	3 415	9 208	10 515	10 769	9 439	5 507	20 703	20 703	19 500	12 861	12 170	14 812	13 658	11 051				
Mail and message distributing occupations	8 593	8 593	—	1 271	12 313	12 313	—	—	21 053	21 053	18 992	22 342	17 472	17 483	18 363	11 051				
Production coordinators and expeditors	9 287	9 287	—	8 338	16 737	16 737	—	—	17 324	17 324	14 921	14 131	12 939	13 206	11 956	10 378				
Traffic, shipping, and receiving clerks	10 485	10 800	8 363	9 543	14 273	14 641	11 700	9 608	17 951	18 210	16 300	13 616	15 910	16 053	15 671	11 833				
Stock and inventory clerks	12 996	13 356	7 945	12 449	16 082	16 227	15 644	10 936	19 613	19 860	18 142	17 959	16 672	17 633	13 333	16 618				
Other material recording, scheduling, and distributing clerks	11 339	11 199	7 757	23 005	17 169	17 636	5 571	—	22 622	23 300	5 835	5 005	18 180	18 010	24 615	17 705				
Adjusters and investigators	11 300	15 178	7 005	23 005	14 210	14 876	8 548	15 550	15 628	15 628	15 864	17 665	16 103	15 537	15 705	15 705				
Date-entry keyers	12 005	12 600	9 427	8 290	15 040	15 385	11 935	9 643	20 092	20 092	17 109	17 704	16 187	16 328	12 294	15 600				
Other administrative support occupations	8 892	9 300	6 951	6 911	13 073	13 566	10 595	9 974	16 050	16 612	13 571	13 756	14 311	14 609	13 220	11 357				
Service occupations																				
Private household occupations	8 257	8 360	7 358	10 819	10 865	10 949	10 546	8 799	17 881	18 022	17 265	13 477	15 122	15 268	13 534	12 392				
Protective service occupations	8 010	8 088	7 358	10 819	10 616	10 617	11 627	8 799	17 881	18 022	17 265	13 477	15 122	15 268	13 534	12 392				
Guard	18 737	18 737	—	—	15 222	16 913	—	—	17 826	17 826	16 388	13 990	14 644	14 752	13 534	12 392				
Other protective service occupations	7 303	9 406	6 881	6 803	13 513	14 149	10 599	10 061	15 947	16 003	12 800	13 797	22 302	22 302	13 155	11 228				
Service occupations, except protective and household	9 075	9 678	3 585	—	15 049	15 739	8 789	8 005	16 075	16 824	6 706	8 805	7 421	10 128	—	5 649				
Food preparation and service occupation	9 005	9 005	—	—	15 009	15 009	—	—	17 088	16 824	22 195	13 628	21 959	21 959	—	—				
Health services occupations	9 164	9 644	7 141	6 898	13 589	14 232	10 636	10 081	15 254	15 899	12 779	13 628	14 040	14 337	13 499	11 359				
Cleaning and building services occupations, except household	4 949	6 369	1 726	—	10 818	11 108	8 912	—	21 408	22 130	19 268	23 625	17 581	19 233	10 956	19 284				
Personal service occupations	8 092	7 168	10 232	3 831	10 444	10 591	9 528	11 725	17 391	17 640	18 457	12 849	11 643	11 583	13 005	16 805				
Farming, forestry, and fishing occupations	12 221	12 672	9 540	10 889	17 515	17 896	13 769	13 731	21 938	22 398	18 541	18 621	19 499	20 110	15 858	16 187				
Precision production, craft, and repair occupations	13 524	13 870	10 354	12 233	17 461	17 644	13 171	15 738	28 204	28 451	19 743	20 844	19 743	20 112	16 362	19 731				
Mechanics and repairers	20 977	22 088	6 760	12 035	21 263	20 976	33 434	27 426	28 366	28 451	26 613	24 861	24 900	24 858	20 551	19 055				
Supervisors, mechanics and repairers	12 102	12 372	14 076	12 102	16 185	16 185	15 428	16 184	20 397	20 397	16 184	19 007	18 899	19 078	11 586	12 396				
Automobile mechanics, including body	10 121	10 121	—	6 005	18 969	18 926	19 505	18 255	24 241	24 241	23 677	25 228	22 021	22 385	18 849	21 382				
Industrial machinery repairers	18 487	17 053	18 005	15 637	17 437	17 761	14 878	—	22 129	22 507	17 876	12 586	20 126	20 126	17 105	16 683				
Electronic repairers, communications and industrial equipment	15 123	15 592	11 255	11 737	17 488	17 721	14 878	14 773	22 325	22 864	19 906	21 221	20 000	20 308	17 005	16 805				
Heating, air conditioning, and refrigeration mechanics	10 784	11 234	8 896	9 145	15 588	16 202	11 465	11 641	21 971	22 291	18 886	19 864	20 095	20 355	15 917	18 538				
Construction trades	17 248	17 822	23 545	10 995	20 163	21 317	8 994	26 942	28 148	28 073	23 707	12 375	25 640	25 774	15 917	32 158				
Supervisors, construction occupations	10 417	10 814	8 763	9 146	13 489	13 605	11 179	9 924	19 557	19 703	15 756	21 561	21 748	21 748	11 534	17 875				
Carpenters	14 316	14 492	9 165	6 622	19 904	20 041	16 872	16 968	23 131	23 291	20 801	21 397	21 134	21 246	17 280	17 455				
Electricians	9 253	9 820	7 655	8 033	11 306	11 893	11 220	6 982	12 621	12 991	12 991	16 371	14 362	14 742	12 323	15 287				
Painters, construction and maintenance	13 300	13 046	20 285	12 833	17 506	18 048	14 239	11 424	21 980	22 315	19 193	21 361	20 959	21 323	16 914	17 522				
Plumbers, pipefitters, and steamfitters	10 757	10 604	12 583	10 147	12 617	13 074	10 708	11 243	20 162	20 562	18 394	18 399	18 438	18 678	17 582	16 626				
Other construction trades																				

Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Furniture and fixtures				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	11 840	11 207	15 005	—	15 037	15 650	10 291	12 748	16 090	16 398	18 411	10 257	20 793	21 433	20 731	18 590
Precision production occupations	12 486	12 804	9 541	11 489	18 126	18 508	14 136	13 941	21 804	22 421	17 745	16 909	20 574	21 433	20 731	18 590
Supervisors, production occupations	15 201	15 621	11 980	12 632	19 506	19 851	15 148	15 839	24 431	24 834	21 522	19 818	21 485	21 971	17 285	15 220
Precision metalworking occupations	13 190	13 515	10 171	13 035	16 776	17 144	12 896	13 524	18 491	19 028	17 348	14 741	17 534	17 928	14 579	13 378
Tool and die makers	16 082	16 708	8 141	14 561	16 904	16 958	15 047	15 145	18 387	18 457	17 243	17 100	19 272	18 478	15 539	14 613
Machinists	10 527	10 648	10 648	10 531	16 782	17 224	12 570	13 025	18 426	19 116	17 325	14 019	17 202	17 767	14 890	13 893
Sheet metal workers	16 521	16 500	13 759	16 376	17 245	17 704	8 709	10 025	16 401	17 325	16 071	14 663	17 071	17 101	19 393	18 623
Other precision metal workers	12 746	12 575	4 638	10 819	16 150	16 208	16 150	19 479	13 858	12 922	16 442	18 870	17 661	17 707	17 393	18 054
Precision textile, apparel, and furnishings machine workers	10 745	11 034	8 589	10 345	11 027	11 348	7 962	—	13 858	12 922	16 442	18 870	17 661	17 707	17 393	18 054
Precision food production occupations	9 613	10 284	8 427	8 846	7 927	7 310	15 226	10 859	9 651	10 945	5 432	10 506	15 368	16 262	9 175	18 618
Precision inspectors, testers, and related workers	19 201	19 598	6 435	—	15 641	15 452	—	—	21 710	22 373	12 922	18 120	21 412	21 514	14 568	12 038
Plant and system operators	11 352	12 127	9 467	15 005	19 689	19 946	17 287	17 664	22 824	23 279	20 862	18 120	21 498	21 720	22 890	17 493
Other precision production occupations	10 694	10 888	8 267	10 806	11 750	12 083	10 101	8 259	13 819	14 439	12 369	11 515	12 467	13 026	11 530	8 832
Operators, fabricators, and laborers	9 439	9 796	8 232	8 318	13 163	13 620	11 055	11 221	17 194	17 867	15 077	15 065	14 793	15 290	12 715	12 504
Machine operators, assemblers, and inspectors	9 408	9 791	8 366	8 406	13 121	13 557	11 295	10 921	16 988	17 665	14 865	15 477	14 652	15 103	12 884	12 171
Machine operators and tenders, except precision	9 475	9 791	8 277	8 529	13 233	13 623	11 657	11 214	16 976	17 686	14 884	14 458	14 702	15 130	13 054	12 245
Metalworking and plastic working machine operators	9 118	9 355	8 621	7 722	12 106	12 240	10 961	10 930	17 043	17 847	14 393	13 726	14 337	14 669	12 855	12 421
Fabricating machine operators, n.e.c.	10 757	11 044	8 666	10 317	12 024	12 012	—	5 637	16 982	17 963	13 621	13 531	13 488	13 875	11 834	11 686
Metal and plastic processing and woodworking machine operators	9 170	9 301	8 208	9 600	12 567	12 856	11 654	10 358	16 746	17 124	15 777	14 587	14 601	14 191	12 090	11 874
Printing machine operators	8 373	8 013	11 457	7 092	11 572	11 467	5 471	10 533	15 465	15 170	16 687	11 081	14 601	14 670	15 448	7 215
Textile machine operators	9 930	10 503	9 657	7 679	12 314	13 015	6 298	12 240	18 341	19 003	14 089	22 005	13 032	13 564	12 181	7 148
Textile sewing machine operators	5 234	7 747	11 597	10 163	15 123	18 460	9 005	—	17 009	17 931	12 005	—	14 520	15 522	11 605	9 505
Laundering and dry cleaning machine operators	9 309	9 712	9 508	8 155	12 474	13 804	12 524	10 842	16 408	18 827	15 185	7 769	14 369	14 680	12 920	15 102
Packaging and filling machine operators	10 507	10 684	9 579	8 257	15 109	15 432	12 453	12 660	18 024	18 920	15 925	13 412	17 025	17 543	14 913	15 102
Furnace, kiln, and oven operators, except food	9 308	9 566	8 742	8 327	12 824	13 195	11 253	11 070	15 932	16 666	15 157	13 476	14 317	15 158	12 212	11 419
Other specified machine operators	9 929	10 350	7 901	8 338	13 456	13 948	11 831	11 321	16 907	17 555	15 157	14 476	14 317	14 768	12 833	11 419
Miscellaneous and not specified machine operators	9 193	9 466	8 529	8 187	12 480	13 050	9 854	10 013	16 109	16 720	13 908	13 730	14 238	14 965	11 526	11 422
Fabricators, assemblers, and hand working occupations	11 256	11 758	9 580	9 719	14 800	15 423	10 344	11 855	16 512	17 130	13 976	14 319	16 216	16 641	13 849	14 363
Welders and cutters	6 974	11 531	3 990	5 744	15 184	15 432	19 005	11 405	8 290	8 053	—	6 696	16 421	16 123	13 335	16 305
Solders and brazers	8 870	9 072	8 434	7 971	11 732	12 336	10 016	8 710	14 537	15 061	13 516	12 729	17 787	12 605	9 798	9 062
Assemblers	8 410	8 973	8 973	8 149	11 381	11 732	10 024	10 405	15 839	15 855	16 802	8 716	15 188	15 450	16 529	11 141
Hand working occupations	10 634	10 848	8 742	10 589	13 919	14 374	11 443	11 151	19 173	19 615	16 925	18 221	14 769	15 010	13 072	13 084
Production inspectors, testers, samplers, and weighers	7 568	8 356	4 455	134	11 406	12 631	9 399	7 752	14 669	14 107	15 326	17 559	8 421	10 573	4 731	—
Graders and sorters, except agricultural	10 811	10 986	9 184	10 955	14 126	14 500	11 737	11 657	19 270	19 721	16 980	18 269	14 872	15 063	13 498	13 288
Other production inspectors, testers, samplers, and weighers	11 463	12 159	8 958	9 856	14 450	14 897	11 592	13 319	19 064	19 706	16 782	18 026	16 679	17 390	13 274	15 752
Transportation and material moving occupations	12 573	13 872	9 739	9 881	14 707	15 158	11 522	13 684	16 619	17 288	16 237	16 207	17 238	17 759	14 386	15 287
Motor vehicle operators	12 555	13 378	9 739	9 808	14 698	15 144	11 508	13 677	17 492	18 200	15 139	14 017	16 941	17 465	14 276	14 466
Truck drivers	12 593	13 400	9 766	9 702	14 690	15 143	11 500	13 660	17 552	18 218	15 342	13 948	17 068	17 560	14 499	14 530
Driver-sales workers	12 093	13 201	7 676	12 005	13 112	13 646	8 005	14 830	14 638	12 743	17 064	—	10 605	10 850	9 905	9 905
Other motor vehicle operators	10 905	11 035	10 529	12 572	13 105	13 646	8 005	14 830	14 638	12 743	17 064	—	10 605	10 850	9 905	9 905
Rail and water transportation occupations	18 086	17 324	17 145	22 806	16 892	16 609	15 652	14 877	21 924	22 354	19 963	22 666	13 746	15 088	9 467	15 137
Material moving occupations	9 787	10 261	7 714	8 824	14 947	15 741	12 247	10 005	21 924	22 354	19 963	22 666	13 746	15 088	9 467	15 137
Supervisors, material moving equipment operators	13 387	13 444	11 345	14 167	16 144	17 508	13 684	12 864	19 203	19 840	16 941	18 644	16 458	17 239	12 897	15 929
Crane, hoist, and winch operators	13 228	13 549	11 345	14 167	16 144	17 508	13 684	12 864	19 203	19 840	16 941	18 644	16 458	17 239	12 897	15 929
Excavating, grading, and dozer machine operators	5 136	5 136	12 265	8 855	14 913	16 818	3 385	14 005	25 392	25 695	22 574	25 005	24 124	24 506	22 089	21 275
Other material moving equipment operators	9 675	10 164	7 624	10 019	13 684	14 123	11 267	12 837	18 299	17 573	20 846	15 197	19 042	19 702	14 917	18 618
Handlers, equipment cleaners, helpers, and laborers	8 104	8 483	6 984	7 001	11 620	12 079	9 908	9 931	16 109	16 756	14 190	14 828	13 745	14 255	11 504	11 767
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	10 028	10 964	3 005	—	19 874	21 059	16 036	10 550	45 518	58 310	14 668	—	25 858	22 641	11 126	—
Helpers, craft and production	7 187	7 381	9 580	7 034	11 816	11 939	8 536	10 188	17 742	18 399	15 292	15 744	14 748	15 426	12 887	12 887
Construction laborers	10 285	10 547	8 153	16 449	11 599	11 816	8 536	10 188	15 280	15 938	13 285	17 232	12 981	13 203	9 280	9 280
Freight, stock, and material handlers, and equipment	7 738	8 153	6 049	6 560	12 323	12 792	10 375	10 086	17 770	18 659	14 636	17 932	13 787	14 330	11 147	12 460
Garage and service station occupations, and equipment	9 119	9 522	10 505	6 704	12 764	13 615	10 177	9 977	15 823	15 944	16 045	14 902	14 148	14 620	10 512	15 880
Hand packers and packagers	8 321	8 598	7 924	6 101	11 829	12 192	10 577	8 904	16 301	16 890	13 738	17 027	13 210	13 331	12 349	11 946
Laborers, except construction	8 301	8 732	7 069	7 103	11 217	11 682	9 503	10 097	15 371	15 923	13 909	14 155	13 522	14 062	11 698	10 947

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Furniture and fixtures				Spanish origin ¹				Race				Race			
	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹
Employed females 16 years and over	7 485	7 450	6 581	7 036	9 219	9 310	8 911	7 370	12 376	12 433	12 422	10 286	10 298	10 493	9 333	8 983
Managerial and professional specialty occupations	12 031	12 197	9 029	9 492	11 174	11 251	10 490	8 175	15 467	15 880	12 709	11 686	14 726	14 829	11 248	16 457
Executive, administrative, and managerial occupations	12 432	12 551	9 001	10 843	12 919	13 057	11 362	9 589	15 294	15 526	12 021	9 976	14 752	14 857	9 157	16 020
Officials and administrators, public administration	13 319	13 319	—	10 505	13 720	14 406	4 319	7 222	12 469	12 661	7 025	—	16 734	15 742	—	34 187
Financial managers	13 427	13 299	—	8 845	12 688	12 798	—	3 630	19 505	19 305	—	4 005	16 258	16 258	—	5 725
Managers, marketing, advertising, and public relations	—	—	—	—	15 005	15 005	—	—	—	—	—	—	11 538	11 538	—	—
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	11 248	11 407	—	9 619	14 900	14 838	18 205	12 647	15 000	14 892	21 045	—	14 826	14 727	13 905	18 186
Managers and administrators, n.e.c.	13 285	13 495	10 792	11 047	13 091	13 152	14 823	9 671	16 524	16 951	9 975	9 452	16 911	16 401	7 958	12 371
Salaried	13 391	13 509	10 792	11 047	14 884	15 066	14 823	9 980	16 731	17 147	9 975	15 255	16 921	16 412	7 958	12 371
Self-employed	12 242	13 359	—	—	4 975	4 924	—	4 005	6 305	6 543	—	4 672	10 708	10 708	—	—
Management related occupations	10 840	10 865	6 392	11 296	12 428	12 613	10 204	11 038	14 854	14 999	13 171	11 353	13 331	13 599	9 732	14 779
Accountants and auditors	10 914	10 845	7 899	13 977	12 058	12 299	8 957	14 775	14 745	14 745	16 050	7 840	12 836	12 868	9 126	13 449
Personnel, training, and labor relations specialists	10 383	10 506	5 505	10 141	13 731	13 972	10 588	12 003	15 847	14 632	14 066	7 840	16 418	16 992	9 544	15 278
Buyers and purchasing agents	10 315	10 366	2 897	9 615	11 835	11 801	14 775	4 729	14 143	14 246	14 134	18 700	12 270	12 246	15 005	—
Inspectors and compliance officers	6 670	5 525	8 005	5 525	13 405	13 405	—	—	12 959	12 959	—	—	9 151	9 151	—	—
Other management related occupations	14 108	14 108	—	—	14 584	14 778	8 005	—	15 883	18 258	2 918	—	13 996	13 996	—	—
Professional specialty occupations	10 322	10 615	9 092	3 158	8 297	8 269	9 377	6 956	16 362	16 547	13 798	15 523	14 662	14 757	14 123	17 614
Engineers, architects, and surveyors	8 015	8 980	—	1 147	13 062	12 866	12 887	—	16 257	16 757	13 665	20 665	13 549	13 235	15 236	21 005
Architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers	8 931	8 980	—	855	13 202	12 882	15 778	—	16 257	16 757	13 665	20 665	13 349	13 253	15 236	21 005
Civil engineers	—	—	—	—	28 850	40 005	—	—	15 518	15 518	—	—	6 934	6 934	—	—
Electrical and electronic engineers	8 005	8 005	—	—	12 175	12 175	—	—	13 552	11 925	—	—	13 453	13 453	—	—
Industrial engineers	8 607	8 636	—	855	12 989	12 871	10 447	—	15 843	15 874	13 366	—	13 233	13 201	11 005	—
Mechanical engineers	22 315	22 315	—	—	21 005	21 005	—	—	8 880	8 880	—	—	9 219	9 219	—	—
Other engineers	7 289	7 289	—	—	12 161	11 547	—	—	17 072	18 238	13 866	20 665	14 263	14 185	16 505	21 005
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	12 985	12 985	—	—	18 427	18 732	13 605	—	19 020	19 075	18 175	—	17 850	17 850	—	—
Operations and systems researchers and analysts	15 179	15 179	—	—	15 948	15 948	—	—	17 025	17 025	—	—	19 315	19 315	9 236	—
Mathematical scientists	10 280	10 280	—	—	12 875	12 875	—	—	19 047	19 047	—	—	19 315	19 315	—	—
Natural scientists	4 678	4 678	—	—	6 818	6 690	5 008	7 727	16 626	16 162	18 329	—	14 547	14 494	—	8 405
Chemists, except biochemists	—	—	—	—	6 570	6 393	5 008	7 727	16 737	16 232	18 329	—	14 711	14 888	—	8 405
Other natural scientists	4 678	4 678	—	—	11 264	11 264	—	—	15 680	15 680	—	—	13 265	13 265	—	—
Health diagnosing occupations	15 005	15 005	—	—	2 005	2 005	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	13 154	13 154	—	—	11 663	11 698	10 435	13 905	16 101	16 007	18 940	14 813	15 125	15 157	14 193	19 306
Registered nurses	13 272	13 272	—	—	12 056	11 963	17 088	13 905	16 207	16 115	18 940	14 813	15 325	15 325	14 193	19 306
Other health assessment and treating occupations	11 882	11 882	—	—	5 896	7 062	455	—	7 323	7 323	—	—	10 475	10 475	—	—
Teachers, except postsecondary	13 166	13 166	—	—	5 544	5 544	—	5 465	19 005	19 005	—	—	11 153	7 691	14 005	—
Social scientists and urban planners	9 480	9 480	—	—	17 482	17 482	—	—	13 931	17 768	—	—	15 805	15 805	—	—
Social and recreation workers	8 170	9 235	7 105	—	22 236	22 236	15 005	—	16 578	16 578	—	—	32 588	32 588	—	—
Lawyers and judges	—	—	—	—	22 213	22 213	—	—	16 452	15 627	30 005	—	14 277	14 664	16 485	16 745
Writers, artists, entertainers, and athletes	10 359	10 477	9 305	6 169	6 348	6 312	8 472	6 416	17 482	19 217	475	—	13 988	12 741	—	—
Other professional specialty occupations	7 653	7 653	—	—	9 374	9 374	—	—	—	—	—	—	—	—	—	—
Technical, sales, and administrative support occupations	7 990	8 014	7 411	6 636	9 453	9 483	9 246	8 314	12 543	12 494	13 522	11 590	10 379	10 455	9 660	9 329
Technicians and related support occupations	8 531	8 470	14 005	7 350	11 162	11 272	11 552	7 713	14 661	14 805	13 933	13 937	12 419	12 476	12 998	10 514
Health technicians and technicians	10 287	10 287	—	—	9 638	8 241	11 005	—	14 038	14 128	13 835	—	9 499	9 499	—	—
Health technicians and technicians	10 287	10 287	—	—	8 711	7 113	12 905	—	12 898	11 613	14 683	—	9 227	9 227	—	—
Other health technicians and technicians	—	—	—	—	11 073	10 386	—	—	17 093	19 487	12 505	—	9 805	9 805	—	—
Engineering and science technicians	7 725	7 621	14 005	6 815	10 895	11 133	10 021	7 840	14 509	14 730	12 579	13 957	12 230	12 281	12 159	8 491
Electrical and electronic technicians	8 348	8 138	—	8 005	30 969	30 969	—	—	15 515	16 016	12 005	—	18 535	18 535	—	—
Industrial and mechanical engineering technicians	7 905	7 905	—	—	6 665	6 665	—	—	15 649	15 293	12 505	—	13 255	13 255	—	—
Drafting and surveying technicians	7 011	6 890	14 005	6 382	9 611	9 876	10 398	1 105	11 894	11 318	16 745	—	9 276	10 097	—	—
Other engineering and science technicians	9 647	9 647	—	—	10 697	10 892	9 974	8 200	15 014	15 544	13 079	13 957	12 551	12 445	13 401	10 653
Technicians, except health, engineering, and science	9 652	9 620	—	—	11 938	11 848	14 773	6 718	15 058	15 006	20 390	—	12 881	12 965	13 859	13 980
Airframe, engine, and mechanical technicians	8 005	8 005	—	—	9 025	9 025	—	—	13 827	10 532	19 005	—	8 295	8 295	—	—
Air traffic controllers and broadcast equipment operators	9 423	9 423	—	—	10 865	10 865	—	—	15 455	15 463	22 005	—	12 979	13 408	11 915	13 235
Computer programmers	10 361	10 361	—	—	10 281	10 281	—	—	14 456	14 456	—	—	12 832	12 496	16 883	14 770
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:

OCCUPATION BY INDUSTRY

1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed females 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.	9 361	9 382	7 814	4 083	9 010	9 057	10 283	12 005	15 120	14 318	18 005	—	19 010	19 010	—	—
Sales occupations	8 703	8 687	8 410	7 792	10 792	10 792	10 283	12 005	15 120	14 318	18 005	—	19 010	19 010	—	—
Supervisors and proprietors, sales occupations	8 823	9 970	8 410	7 792	12 012	12 107	10 283	12 005	15 120	14 318	18 005	—	19 010	19 010	—	—
Self-employed	1 616	1 616	1 616	—	4 746	4 746	4 005	—	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	11 687	11 439	14 005	4 068	9 222	9 233	10 587	6 830	18 820	18 820	11 380	9 802	11 488	11 372	15 208	11 248
Sales representatives, commodities, except retail	9 919	9 916	7 833	4 068	9 222	9 233	10 587	6 830	18 820	18 820	11 380	9 802	11 488	11 372	15 208	11 248
Sales representatives, retail and personal services	5 198	5 394	3 882	1 299	6 576	6 976	6 146	4 842	12 520	12 520	—	—	7 337	8 337	—	—
Cashiers	4 162	4 196	6 005	1 299	7 147	7 147	—	1 195	9 646	9 646	—	—	4 461	3 691	—	5 725
Other sales occupations, retail and personal services	7 185	7 220	1 405	—	9 393	9 423	9 127	8 470	12 410	12 353	13 487	11 535	10 228	10 304	9 424	9 161
Administrative support occupations, including clerical	7 880	7 906	7 363	6 795	9 393	9 423	9 127	8 470	12 410	12 353	13 487	11 535	10 228	10 304	9 424	9 161
Supervisors, administrative support occupations	12 824	12 980	10 076	15 384	13 203	13 144	15 911	9 622	17 148	17 155	18 613	15 123	14 688	14 740	13 603	12 329
Computer equipment operators	8 475	8 446	10 354	6 441	10 857	10 857	10 033	9 296	12 479	12 826	10 500	12 486	10 089	10 468	7 547	9 338
Secretaries, stenographers, and typists	8 041	8 047	8 701	5 211	9 071	9 168	8 046	9 497	12 002	12 015	12 057	11 714	10 604	10 429	9 242	8 623
Secretaries	6 475	6 554	8 847	4 689	6 922	7 090	5 132	6 709	12 985	12 985	13 211	11 683	10 604	10 638	8 283	6 509
Stenographers and typists	6 368	6 343	7 268	4 689	6 922	7 090	5 132	6 709	12 985	12 985	13 211	11 683	10 604	10 638	8 283	6 509
Receptionists	8 041	8 136	7 155	6 877	9 235	9 037	8 082	7 241	14 240	13 918	17 061	12 819	10 904	10 904	6 441	5 585
Other information clerks	3 452	3 292	4 014	6 932	10 313	10 328	9 957	8 115	14 511	14 033	19 256	12 819	10 831	10 904	11 013	8 953
File clerks	7 768	7 931	6 392	6 932	9 295	9 277	8 879	8 125	11 782	11 730	13 592	10 589	9 910	9 914	9 236	9 702
Other records processing occupations, except financial	8 409	8 399	7 066	6 779	9 295	9 277	8 879	8 125	11 782	11 730	13 592	10 589	9 910	9 914	9 236	9 702
Bookkeepers, accounting, and auditing clerks	8 345	8 344	10 923	8 660	9 203	9 203	8 243	7 243	10 802	10 802	13 808	10 448	9 443	9 569	16 672	9 226
Payroll and timekeeping clerks	8 171	8 096	12 661	6 321	9 353	9 490	7 079	7 095	13 336	13 336	14 728	10 468	10 448	10 424	10 473	8 910
Other financial records processing occupations	7 523	7 529	6 580	2 005	8 216	8 085	8 597	7 563	10 919	10 919	10 078	7 505	6 401	6 484	5 622	6 910
Telephone operators	6 823	6 780	6 941	7 421	11 284	11 245	11 995	11 334	15 435	15 435	15 280	16 664	11 191	11 240	11 317	12 040
Mail and message distributing occupations	8 608	8 678	8 861	7 584	11 284	11 245	11 995	11 334	15 435	15 435	15 280	16 664	11 191	11 240	11 317	12 040
Production occupations, except protective and household	7 379	7 519	5 842	8 767	8 741	8 585	9 816	5 655	13 406	13 406	13 365	18 880	10 673	10 916	9 813	7 218
Transportation occupations, except protective and household	6 571	6 344	7 529	6 991	10 277	9 772	10 252	8 909	13 406	13 406	13 365	18 880	10 673	10 916	9 813	7 218
Traffic, shipping, and receiving clerks	6 072	6 304	5 730	14 005	9 399	9 272	10 252	8 909	13 406	13 406	13 365	18 880	10 673	10 916	9 813	7 218
Stock and commodity clerks	6 571	6 344	7 529	6 991	10 277	9 772	10 252	8 909	13 406	13 406	13 365	18 880	10 673	10 916	9 813	7 218
Other material recording, scheduling, and distributing clerks	7 502	7 441	8 907	11 205	10 861	10 861	8 220	7 521	12 581	12 581	12 395	20 005	12 347	12 347	11 959	12 005
Adjusters	7 502	7 441	8 907	11 205	10 861	10 861	8 220	7 521	12 581	12 581	12 395	20 005	12 347	12 347	11 959	12 005
Other administrative support occupations	7 084	7 151	5 925	5 995	8 843	8 853	8 220	7 521	12 581	12 581	12 395	20 005	12 347	12 347	11 959	12 005
Service occupations	5 608	5 818	5 204	4 277	7 526	7 707	6 807	7 024	10 996	10 922	10 996	12 378	8 865	9 071	8 699	7 664
Private household occupations	4 765	4 787	4 005	—	9 590	9 534	10 805	—	15 040	14 789	15 813	11 069	10 732	10 206	13 536	12 077
Protective service occupations	4 765	4 787	4 005	—	9 590	9 534	10 805	—	15 040	14 789	15 813	11 069	10 732	10 206	13 536	12 077
Guards	5 645	5 884	5 209	4 277	7 526	7 707	6 807	7 024	10 996	10 922	10 996	12 378	8 865	9 071	8 699	7 664
Other protective service occupations	6 039	5 915	7 823	6 005	9 590	9 534	10 805	—	15 040	14 789	15 813	11 069	10 732	10 206	13 536	12 077
Food preparation and service occupation	8 171	9 078	5 078	3 670	16 777	16 777	6 737	7 024	27 905	27 905	10 303	12 604	8 576	8 870	11 324	8 141
Health service occupations	5 561	5 826	4 251	3 670	16 777	16 777	6 737	7 024	27 905	27 905	10 303	12 604	8 576	8 870	11 324	8 141
Cleaning and building service occupations, except household	4 723	4 251	4 913	7 469	10 642	12 728	4 003	7 332	11 349	11 091	11 612	12 132	6 395	6 395	7 661	8 274
Personal service occupations	5 158	4 678	6 585	—	6 891	7 768	6 095	6 005	9 219	5 562	13 688	—	6 486	6 910	5 005	—
Farming, forestry, and fishing occupations	7 255	7 427	6 617	6 637	9 580	9 616	10 870	6 958	14 134	14 454	13 593	8 508	11 633	12 139	9 571	7 923
Precision production, craft, and repair occupations	8 133	8 436	6 256	6 242	11 972	12 199	6 152	6 108	16 550	16 586	17 117	11 545	12 751	13 051	11 285	11 591
Mechanics and repairers	7 287	7 884	4 290	—	19 152	19 155	4 75	—	25 055	25 055	—	—	26 677	26 677	2 305	25 005
Supervisors, mechanics and repairers	8 787	9 315	1 603	8 105	12 990	13 520	13 588	—	22 417	22 417	20 657	20 505	6 559	6 559	15 088	13 225
Automobile mechanics, including body	13 143	13 143	—	—	13 505	13 505	—	—	21 950	20 005	23 895	—	8 194	8 194	8 005	8 005
Industrial machinery repairers	7 765	7 642	7 472	5 718	6 305	6 505	—	—	21 950	20 005	23 895	—	8 194	8 194	8 005	8 005
Electronic repairers, communications and industrial equipment	7 647	7 647	—	—	13 505	13 505	—	—	21 950	20 005	23 895	—	8 194	8 194	8 005	8 005
Heating, air conditioning, and refrigeration mechanics	6 647	6 012	—	—	13 505	13 505	—	—	21 950	20 005	23 895	—	8 194	8 194	8 005	8 005
Other mechanics and repairers	6 605	6 005	—	—	13 505	13 505	—	—	21 950	20 005	23 895	—	8 194	8 194	8 005	8 005
Construction trades	6 005	5 528	5 296	8 882	6 957	6 957	4 960	4 226	21 005	21 005	12 252	10 265	12 031	12 223	11 513	9 320
Supervisors, construction occupations	8 103	8 096	8 205	6 626	11 229	11 229	5 449	5 005	18 297	19 686	16 660	7 884	16 696	17 184	4 963	4 963
Carpenters	8 962	8 962	—	—	11 229	11 229	5 449	5 005	18 297	19 686	16 660	7 884	16 696	17 184	4 963	4 963
Electricians	8 962	8 962	—	—	11 229	11 229	5 449	5 005	18 297	19 686	16 660	7 884	16 696	17 184	4 963	4 963
Painters, construction and maintenance	8 962	8 962	—	—	11 229	11 229	5 449	5 005	18 297	19 686	16 660	7 884	16 696	17 184	4 963	4 963
Plumbers, pipefitters, and steamfitters	8 962	8 962	—	—	11 229	11 229	5 449	5 005	18 297	19 686	16 660	7 884	16 696	17 184	4 963	4 963
Other construction trades	7 199	7 276	6 636	5 820	4 071	4 071	6 572	7 242	10 977	12 504	12 635	12 989	12 057	12 057	12 057	3 205

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Furniture and fixtures				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	9 349	14 223	4 475	—	13 005	17 732	6 505	—	5 028	6 704	—	—	7 077	7 077	—	—
Precision production occupations	7 240	7 448	6 480	6 486	9 833	9 841	11 283	7 438	13 419	13 873	12 040	8 649	—	—	—	—
Supervisors, production occupations	10 048	10 364	8 325	7 808	11 930	11 945	12 169	10 148	15 621	16 035	14 353	9 714	11 749	9 349	7 539	8 470
Precision metalworking occupations	6 046	5 894	8 184	4 434	8 816	7 955	8 135	5 035	10 778	10 725	11 260	8 970	14 534	12 361	9 268	6 362
Tool and die makers	12 778	12 778	—	—	8 816	8 816	—	7 005	14 255	13 737	16 689	8 921	8 765	8 462	10 865	2 335
Mechanists	6 531	5 522	9 040	4 434	8 884	9 098	9 701	4 922	9 942	9 962	10 152	10 672	8 528	6 839	7 980	7 980
Other metal workers	6 068	3 055	5 774	—	5 092	4 596	6 480	—	9 410	7 165	11 805	7 646	6 398	6 398	—	—
Other precision metal workers	6 068	3 055	5 774	—	5 092	4 596	6 480	—	9 410	7 165	11 805	7 646	6 398	6 398	—	—
Precision food production occupations	13 747	7 026	6 896	7 224	5 117	6 854	10 135	2 584	15 173	15 173	2 005	—	4 405	4 405	—	—
Precision food preparation occupations	7 149	7 026	6 896	7 224	5 117	6 854	10 135	2 584	15 173	15 173	2 005	—	4 405	4 405	—	—
Precision inspectors, testers, and related workers	8 585	8 585	—	—	10 950	8 107	13 145	13 145	13 721	12 374	14 717	—	9 371	9 815	6 750	6 910
Plant and system operators	6 572	6 572	—	—	15 227	14 462	22 005	—	19 728	20 307	15 005	—	11 935	15 110	8 005	6 910
Other precision production occupations	6 211	6 360	5 696	4 841	6 882	6 698	10 301	5 417	8 349	8 827	8 611	5 143	8 332	8 546	5 972	7 218
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	6 983	7 095	6 506	7 099	8 774	8 844	8 739	7 122	11 273	11 133	12 005	9 221	9 412	9 552	9 185	8 630
Machine operators and tenders, except precision	6 886	7 049	6 220	6 205	8 680	8 728	8 752	6 967	10 688	10 504	11 823	8 450	9 384	9 510	9 181	8 803
Metalworking and plastic working machine operators	6 978	7 097	6 331	6 712	8 270	8 357	8 313	6 351	10 589	10 381	11 603	8 235	9 168	9 260	9 032	8 776
Fabricating machine operators, n.e.c.	6 517	6 671	5 827	4 918	8 274	8 240	9 785	6 697	11 905	11 521	13 105	7 716	9 648	9 721	9 776	8 277
Metal and plastic processing and woodworking machine operators	6 817	6 990	5 873	7 343	7 983	7 081	8 988	—	11 905	11 697	23 255	7 757	9 791	7 683	9 778	7 986
Printing machine operators	7 096	7 194	6 628	7 321	8 227	8 157	8 785	5 498	10 435	9 984	12 789	9 427	9 864	9 879	10 529	9 338
Textile machine operators	5 961	6 822	3 900	6 005	7 690	8 087	8 941	5 498	10 075	10 262	6 065	9 005	9 078	9 089	8 753	—
Textile sewing machine operators	7 353	7 922	4 836	4 731	7 242	7 598	8 696	6 477	11 900	12 019	8 005	16 305	10 487	10 791	3 383	—
Laundry and dry cleaning machine operators	3 978	6 069	1 302	8 158	9 257	9 268	10 074	6 594	11 521	12 583	7 273	—	9 945	9 945	—	—
Package and filling machine operators	12 071	11 549	15 085	4 388	8 700	8 890	10 943	4 738	15 165	15 214	15 889	7 467	9 328	9 328	—	—
Furnace, kiln, and oven operators, except food	6 799	6 950	6 311	7 072	7 668	7 824	8 888	6 702	10 439	9 496	11 441	10 693	8 436	8 893	8 788	8 788
Other specified machine operators	6 877	7 113	6 120	7 072	8 462	8 588	8 395	6 702	10 670	10 571	13 105	10 693	8 436	8 757	8 757	8 757
Miscellaneous and not specified machine operators	6 563	6 866	5 683	5 252	7 370	7 264	8 308	6 602	9 660	9 424	11 608	8 592	9 159	9 364	8 863	11 293
Fabricators, assemblers, and hand working occupations	7 486	7 870	6 526	5 004	7 923	8 203	7 658	5 699	10 875	10 681	11 780	12 005	8 220	8 101	9 009	5 562
Welders and cutters	7 593	8 222	6 132	6 520	7 923	8 203	7 658	5 699	10 875	10 681	11 780	12 005	8 220	8 101	9 009	5 562
Solders and brazers	6 501	6 794	5 645	5 244	8 082	8 037	8 429	7 022	9 271	9 041	11 529	7 942	9 329	9 329	7 005	5 862
Assemblers	7 020	7 474	5 657	5 945	8 554	8 583	7 806	4 998	12 479	12 549	11 333	9 607	10 499	10 499	8 846	11 796
Hand working occupations	7 414	7 342	7 895	6 614	10 188	10 243	9 731	9 035	13 361	12 258	13 044	9 607	10 540	10 583	10 172	6 091
Production inspectors, testers, samplers, and weighers	5 579	5 827	3 660	—	8 248	8 348	6 248	9 591	13 599	14 854	9 051	16 005	7 549	7 511	8 005	—
Graders and sorters, except agricultural	7 488	7 407	8 024	6 614	10 289	10 338	9 910	9 006	12 303	12 137	13 250	9 133	10 595	10 642	10 814	8 126
Other production inspectors, testers, samplers, and weighers	8 023	8 130	7 710	4 209	10 656	11 026	8 466	8 705	13 946	13 901	13 777	14 772	11 567	11 697	11 061	12 966
Transportation and material moving occupations	9 290	9 303	9 243	—	10 720	11 171	8 050	8 705	12 462	12 766	12 431	8 720	12 048	11 382	16 388	14 814
Transportation occupations	9 290	9 303	9 243	—	10 720	11 171	8 050	8 705	12 462	12 766	12 431	8 720	12 048	11 382	16 388	14 814
Motor vehicle operators	9 290	9 303	9 243	—	10 720	11 171	8 050	8 705	12 462	12 766	12 431	8 720	12 048	11 382	16 388	14 814
Truck drivers	3 670	3 670	—	—	11 759	12 207	5 276	13 200	11 897	11 556	9 072	10 345	12 756	12 117	16 588	15 778
Driver-sales workers	10 228	10 228	—	—	5 136	5 136	—	—	9 205	9 205	—	5 005	12 515	11 205	—	—
Other motor vehicle operators	7 728	7 856	7 334	4 209	10 256	10 256	—	—	18 616	17 379	26 005	15 962	11 485	11 358	—	—
Rail and water transportation occupations	17 105	17 105	—	—	12 905	12 905	8 622	8 273	14 205	14 074	14 065	15 962	11 485	11 753	10 541	12 193
Material moving equipment operators	6 020	6 020	—	—	10 393	10 393	9 305	8 005	19 730	19 730	14 065	16 505	16 505	16 505	—	—
Supervisors, material moving equipment operators	7 671	7 787	7 334	4 209	13 826	13 060	16 125	8 005	17 005	17 005	14 022	16 383	13 945	14 293	11 753	24 005
Crane, hoist and winch operators	7 671	7 787	7 334	4 209	13 826	13 060	16 125	8 005	17 005	17 005	14 022	16 383	13 945	14 293	11 753	24 005
Excavating, grading, and dozer machine operators	7 671	7 787	7 334	4 209	13 826	13 060	16 125	8 005	17 005	17 005	14 022	16 383	13 945	14 293	11 753	24 005
Other material moving equipment operators	7 671	7 787	7 334	4 209	13 826	13 060	16 125	8 005	17 005	17 005	14 022	16 383	13 945	14 293	11 753	24 005
Handriers, equipment cleaners, helpers, and laborers	11 438	11 438	—	—	8 914	9 039	8 722	7 541	11 955	12 208	11 736	10 465	9 060	9 285	8 813	6 699
Supervisors, handlers, equipment cleaners, and laborers	5 110	5 182	5 159	1 285	11 425	11 425	8 229	—	15 720	16 290	16 253	15 611	11 713	11 453	14 147	129
Helpers, craft and production	6 037	6 189	5 278	—	8 656	8 951	8 229	—	7 906	8 428	9 550	—	7 005	7 005	—	—
Construction laborers	7 116	7 186	7 371	2 834	7 792	8 861	8 278	3 005	12 628	12 331	12 751	5 845	9 300	9 625	8 527	7 636
Freight, stock, and material handlers	5 622	5 001	6 738	2 285	7 282	7 367	6 536	5 338	11 224	10 551	13 061	7 005	7 409	7 330	7 384	6 506
Garage and service station occupations, and equipment cleaners	6 821	6 925	6 996	5 760	8 345	9 387	9 416	8 322	10 133	10 992	8 345	7 005	7 409	7 330	7 384	6 506
Hand packers and packagers	8 875	8 121	9 715	27 398	8 032	8 369	7 085	6 067	11 972	12 295	11 451	11 972	9 148	9 364	8 643	7 105
Laborers, except construction																

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	16 688	17 310	12 184	11 900	18 184	18 601	13 477	13 127	18 439	19 108	12 603	12 197	20 455	21 202	16 776	14 412
Managerial and professional specialty occupations	29 160	29 460	19 790	21 382	28 152	28 415	21 598	22 760	27 193	27 484	21 086	21 158	31 040	31 415	23 773	22 148
Executive, administrative, and managerial occupations	31 441	31 716	20 866	21 757	31 775	32 003	22 853	24 645	30 992	31 282	22 347	22 844	32 812	33 275	23 701	19 734
Officials and administrators, public administration	29 621	29 800	18 549	23 614	30 005	30 005	22 677	26 947	36 235	36 235	20 888	26 492	38 029	38 448	26 652	21 358
Financial managers	31 432	31 519	17 012	24 363	33 454	33 775	26 192	29 646	31 274	33 026	28 327	17 005	31 768	31 926	23 463	18 671
Managers, marketing, advertising, and public relations	65 043	65 043	—	—	29 841	29 841	—	—	28 857	28 857	—	—	—	22 956	—	—
Administrators, education and related fields	26 415	26 611	20 479	19 147	28 832	28 901	29 261	19 171	27 729	27 836	26 832	21 875	33 966	34 578	25 076	27 393
Managers, medicine and health	34 670	34 670	24 402	22 742	34 934	35 169	23 787	26 814	34 082	34 347	24 432	24 758	36 588	37 058	24 368	19 969
Other specified managers	35 179	35 488	24 864	22 030	35 324	35 563	24 271	26 894	34 517	34 517	23 539	27 900	37 140	37 645	24 368	20 300
Managers and administrators, n.e.c.	25 889	25 958	9 238	29 831	27 545	27 757	—	—	26 791	25 549	—	—	20 660	20 660	—	8 869
Self-employed	21 424	21 590	15 620	17 771	21 911	22 044	19 732	18 050	21 948	22 253	17 387	16 579	26 917	27 257	22 895	16 814
Management related occupations	20 784	21 077	19 619	18 732	21 485	21 693	18 132	19 852	21 678	22 005	17 414	16 154	26 124	26 417	21 746	17 821
Accountants and auditors	22 472	22 601	15 435	18 343	24 033	24 244	22 229	17 542	23 240	23 740	18 690	15 761	29 052	29 749	24 044	16 915
Personnel, training, and labor relations specialists	20 012	20 013	15 435	18 413	19 484	19 507	17 481	15 006	18 780	18 970	14 818	12 965	24 441	24 441	23 474	13 611
Buyers and purchasing agents	21 602	22 246	12 223	23 125	18 470	19 015	13 057	12 005	19 390	19 390	11 805	18 935	22 800	22 800	22 615	24 005
Inspectors and compliance officers	28 632	28 632	17 826	22 986	28 784	28 876	20 888	22 352	30 356	30 356	19 464	36 745	31 182	31 568	20 359	—
Other management related occupations	22 818	22 818	17 547	19 999	23 406	23 741	20 497	20 721	23 759	23 936	19 999	19 645	29 069	29 314	23 852	26 307
Professional specialty occupations	22 764	22 764	17 251	20 530	23 371	23 492	19 402	20 706	23 814	23 993	20 240	19 712	28 941	29 120	24 625	24 539
Engineers, architects, and surveyors	17 132	17 132	12 136	18 803	23 289	23 508	25 005	24 005	23 804	23 304	20 240	19 712	26 782	26 782	24 625	28 005
Architects	22 781	22 781	12 136	20 530	23 371	23 492	19 402	20 706	23 814	23 993	20 240	19 712	28 941	29 120	24 625	24 539
Civil engineers	23 695	23 695	12 136	18 803	23 289	23 508	25 005	24 005	23 804	23 304	20 240	19 712	26 782	26 782	24 625	28 005
Electrical and electronic engineers	23 897	23 897	11 489	20 288	24 075	24 300	20 410	14 892	23 816	23 995	20 246	19 712	28 437	28 769	24 824	6 502
Industrial engineers	23 897	23 897	11 489	20 288	24 075	24 300	20 410	14 892	23 816	23 995	20 246	19 712	28 437	28 769	24 824	6 502
Mechanical engineers	23 897	23 897	11 489	20 288	24 075	24 300	20 410	14 892	23 816	23 995	20 246	19 712	28 437	28 769	24 824	6 502
Other engineers	23 897	23 897	11 489	20 288	24 075	24 300	20 410	14 892	23 816	23 995	20 246	19 712	28 437	28 769	24 824	6 502
Surveyors and mapping scientists	24 092	24 092	15 542	23 746	23 789	23 909	20 110	19 011	21 219	21 422	17 627	19 342	27 225	27 225	24 102	25 882
Surveyors	16 725	16 725	12 362	18 362	23 661	23 800	18 222	20 949	23 091	24 280	19 167	20 063	28 183	28 249	26 539	26 352
Computer systems analysts and scientists	30 129	30 407	22 382	22 305	24 392	24 673	21 131	22 909	23 471	23 820	20 149	20 501	27 533	27 902	23 201	24 597
Operations and systems researchers and analysts	22 727	23 081	7 005	28 505	24 272	24 059	32 572	24 300	22 889	23 628	18 315	18 307	27 838	28 279	24 849	30 005
Mathematical scientists	20 586	20 586	17 825	17 825	22 913	23 123	17 539	25 245	24 406	24 526	16 380	18 002	26 782	26 782	24 849	30 005
Natural scientists	19 963	20 038	17 825	16 893	21 496	21 380	15 392	30 098	22 310	23 232	14 488	19 985	24 307	24 042	24 210	12 842
Chemists, except biochemists	22 673	22 673	22 283	21 345	26 236	26 603	31 052	27 905	25 874	26 542	18 911	19 985	24 407	24 042	24 210	12 842
Other natural scientists	38 911	38 911	—	—	44 432	46 168	46 005	10 765	59 778	59 778	—	—	51 481	52 114	40 005	16 535
Health diagnosing occupations	16 810	16 810	—	—	19 765	19 852	—	—	13 609	13 168	18 140	—	52 940	52 114	40 005	92 436
Health assessment and treating occupations	18 065	18 065	—	—	19 865	19 865	—	—	16 953	16 420	25 005	—	21 659	21 331	24 398	—
Registered nurses	11 309	11 309	—	—	19 837	19 837	—	—	10 974	11 163	6 125	—	20 319	21 961	24 398	—
Other health assessment and treating occupations	17 970	18 296	15 318	12 005	21 377	21 550	20 157	19 359	20 517	21 190	12 296	8 851	22 330	22 705	16 577	24 394
Teachers, except postsecondary	25 497	25 830	42 005	13 005	29 458	29 793	25 040	19 250	29 224	29 303	25 346	18 688	31 418	32 753	19 669	—
Social scientists and urban planners	20 716	20 716	—	—	20 991	20 991	—	—	17 438	18 940	13 533	—	28 167	28 167	26 167	—
Social and recreation workers	48 817	48 817	—	—	45 741	45 456	56 575	36 005	47 867	48 484	31 533	32 005	46 811	46 779	48 877	32 505
Lawyers and judges	19 341	19 465	18 182	14 743	21 010	21 118	18 570	16 882	20 332	20 347	19 533	20 034	29 006	29 548	19 778	24 230
Writers, artists, entertainers, and athletes	17 285	17 285	—	—	25 335	25 975	10 744	—	20 954	21 952	7 722	8 005	27 761	31 025	17 467	—
Other professional specialty occupations	17 139	17 494	12 334	12 992	18 161	18 437	14 403	13 891	16 772	17 216	12 713	13 192	21 193	21 631	17 527	16 113
Technical, sales, and administrative support occupations	16 517	16 707	12 922	14 648	17 363	17 547	15 100	14 181	15 940	16 240	12 886	14 151	23 232	23 571	18 935	18 047
Technicians and related support occupations	18 007	18 007	—	11 005	20 268	20 816	18 368	1 995	20 545	21 252	—	26 005	29 093	29 093	19 245	25 505
Health technologists and technicians	16 920	16 920	—	—	21 829	21 829	—	—	19 322	19 322	—	—	29 005	29 005	—	—
Licensed practical nurses	18 290	18 290	—	11 005	19 994	20 610	18 368	1 995	20 610	21 385	—	26 005	29 005	29 005	19 245	25 505
Other health technologists and technicians	16 137	16 339	12 500	14 460	15 948	16 135	13 816	13 402	15 375	15 653	12 637	13 489	23 300	23 686	18 546	16 749
Engineering and science technicians	17 368	17 624	14 636	19 485	15 585	15 792	13 937	12 898	15 103	15 370	12 595	14 061	20 288	20 660	16 417	16 095
Electrical and electronic technicians	17 069	17 493	12 618	16 899	18 227	18 097	15 680	17 482	17 485	17 485	12 277	15 596	28 299	28 712	22 007	23 956
Industrial and mechanical engineering technicians	15 014	15 238	10 976	13 360	15 456	15 645	12 965	12 943	15 372	15 671	11 424	12 948	22 704	23 233	15 655	14 942
Drafting and surveying technicians	15 014	15 238	10 976	13 360	15 456	15 645	12 965	12 943	15 372	15 671	11 424	12 948	22 704	23 233	15 655	14 942
Other engineering and science technicians	17 580	17 735	14 172	16 206	17 385	17 582	15 024	15 332	16 960	17 238	13 569	11 587	22 054	22 081	22 094	19 788
Technicians, except health, engineering, and science	18 267	18 376	15 960	15 900	20 102	20 338	16 954	16 292	18 610	19 042	14 131	16 296	23 052	23 223	20 595	21 932
Airplane pilots and navigators	23 026	23 026	—	—	22 792	22 824	14 005	13 005	24 338	24 338	6 835	22 945	29 175	29 175	—	24 005
Air traffic controllers and broadcast equipment operators	14 019	14 019	—	—	17 366	17 366	—	—	18 457	18 702	9 005	24 525	22 459	22 585	—	24 005
Computer programmers	18 189	18 178	18 031	15 878	21 168	21 387	18 855	18 042	19 503	19 727	16 281	15 998	22 941	23 005	22 713	23 234
Other technicians, except health, engineering, and science	18 048	18 260	14 538	15 913	17 755	17 963	14 239	14 086	16 939	17 571	12 504	16 374	22 772	23 047	19 139	20 392

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	22 955	23 104	14 459	17 801	24 393	24 518	20 270	19 344	24 292	24 613	17 271	18 103	22 485	22 752	19 986	14 694
Supervisors and proprietors, sales occupations	24 456	25 792	12 431	28 232	26 410	24 784	22 124	23 580	24 774	25 341	12 025	16 748	25 860	26 560	17 444	13 192
Sales representatives, sales occupations	24 876	25 026	12 431	28 232	26 577	24 758	22 124	23 580	24 824	25 405	12 025	16 748	25 405	26 309	17 444	13 192
Self-employed, sales, finance, and business services	22 507	22 507	—	—	27 482	27 482	—	—	23 369	24 111	—	—	21 550	21 245	—	10 505
Sales representatives, finance and business services	14 219	14 219	—	—	20 419	20 419	—	—	24 940	25 327	—	—	21 550	21 245	—	10 505
Sales representatives, commodities, except retail	23 088	23 226	15 117	16 971	24 492	24 616	19 794	19 458	24 480	24 773	18 193	19 276	23 126	23 289	23 313	16 675
Sales workers, retail and personal services	15 265	15 572	13 117	8 968	17 434	17 565	18 547	11 591	19 341	19 460	15 925	8 937	18 056	18 400	12 921	10 820
Cashiers	13 724	14 724	7 393	13 715	14 663	13 564	19 970	17 005	11 888	12 313	2 005	8 929	15 122	18 568	6 828	9 405
Other sales occupations, retail and personal services	15 509	15 689	15 865	7 838	17 577	17 740	16 988	16 988	20 420	20 437	17 172	9 125	18 153	18 396	16 325	10 889
Sales related occupations	12 853	12 853	—	—	16 945	16 945	—	—	26 458	26 458	—	—	15 324	15 324	—	—
Administrative support occupations, including clerical	14 775	15 093	12 001	11 732	15 751	15 996	13 269	12 520	14 798	15 200	12 053	11 568	20 081	20 543	17 034	16 056
Supervisors, administrative support occupations	19 504	19 703	17 862	14 512	20 734	20 863	19 287	16 017	21 104	21 104	12 717	16 501	26 703	27 092	22 189	31 372
Computer equipment operators	14 819	15 077	13 347	15 135	15 656	16 001	13 382	13 136	15 740	16 344	12 717	15 448	21 512	22 047	20 415	15 848
Secretaries, stenographers, and typists	22 214	25 035	8 960	5 274	17 962	19 006	8 216	5 132	14 447	15 118	13 869	8 632	18 692	19 694	18 694	—
Secretaries	24 063	26 982	9 175	5 274	20 567	21 692	10 005	10 005	15 468	16 447	13 869	8 632	17 404	17 468	19 694	—
Stenographers and typists	6 653	7 678	4 645	—	12 241	12 081	10 005	10 005	7 767	8 437	15 065	20 980	19 689	17 674	25 485	—
Receptionists	8 940	9 029	8 005	6 005	12 570	12 084	12 084	13 297	18 211	18 211	15 065	20 980	24 309	25 398	16 810	—
Other information clerks	16 776	17 323	12 325	8 005	20 575	20 575	12 084	13 297	18 211	18 211	15 065	20 980	24 309	25 398	16 810	—
File clerks	14 907	15 110	13 736	13 262	15 238	15 238	12 084	13 297	18 211	18 211	15 065	20 980	24 309	25 398	16 810	—
Other records processing occupations, except financial	13 220	13 491	10 671	9 349	14 938	15 276	12 038	12 038	14 650	14 998	12 583	12 115	18 232	20 738	16 012	20 823
Bookkeepers, accounting, and auditing clerks	15 248	15 515	10 731	12 640	16 448	16 801	12 367	12 367	15 391	15 738	12 583	12 115	18 232	20 738	16 012	20 823
Payroll and timekeeping clerks	16 128	16 346	15 575	10 221	16 829	14 777	17 018	13 019	14 193	14 470	15 896	7 871	21 326	21 362	19 128	17 096
Other financial records processing occupations	15 259	15 384	15 575	10 988	16 909	17 206	12 018	12 350	16 634	17 591	12 947	11 418	22 716	22 952	12 935	8 236
Telephone operators	7 013	7 013	—	—	14 788	14 660	16 455	9 860	9 374	9 598	8 855	9 322	16 716	14 905	14 374	—
Mail and message distributing occupations	8 694	8 841	7 515	7 276	10 853	16 721	16 455	9 860	9 374	9 598	8 855	9 322	16 716	14 905	14 374	—
Production coordinators and expeditors	15 837	16 012	13 375	13 213	16 507	16 721	12 375	13 213	16 507	16 721	12 375	13 213	16 507	16 721	12 375	13 213
Traffic, shipping, and receiving clerks	12 306	12 506	10 843	10 829	12 763	12 863	12 255	10 212	15 249	15 249	12 863	10 851	14 784	14 784	15 045	19 040
Stock and inventory clerks	13 558	13 703	12 256	12 339	14 163	14 273	13 253	12 339	15 321	15 321	12 863	10 851	14 784	14 784	15 045	19 040
Other material recording, scheduling, and distributing clerks	14 361	14 361	10 727	8 542	17 194	17 312	16 893	14 061	12 521	12 521	12 863	10 851	14 784	14 784	15 045	19 040
Adjusters and investigators	19 781	19 808	18 545	16 302	19 792	19 951	14 041	21 229	18 518	18 744	15 406	12 904	22 329	22 329	15 908	21 417
Date-entry typists	11 100	11 334	8 288	10 323	13 143	13 641	8 196	13 641	12 789	13 171	12 365	12 291	19 823	21 305	15 325	13 005
Other administrative support occupations	15 060	15 454	10 405	11 751	16 667	16 906	13 509	12 252	15 748	16 136	11 430	13 688	21 749	22 232	17 456	17 326
Service occupations	12 014	12 344	10 260	10 195	11 881	12 124	10 548	9 392	11 876	12 344	9 595	9 816	18 076	18 568	16 424	16 052
Private household occupations	12 532	12 463	12 865	12 369	13 775	13 846	13 164	11 719	13 000	13 192	12 046	10 922	21 306	21 406	21 240	20 639
Protective service occupations	11 807	11 744	12 085	11 067	13 324	13 355	13 104	11 650	12 650	12 787	12 246	10 298	20 874	20 938	21 111	20 311
Guards	19 298	19 632	16 598	19 578	19 383	19 884	14 459	13 745	18 300	19 245	8 677	20 059	24 810	25 040	22 557	35 535
Other protective service occupations	11 868	12 397	9 537	10 026	11 391	11 646	10 096	9 227	11 465	12 008	8 677	9 690	16 952	17 456	15 431	15 631
Food preparation and service occupations	9 644	10 371	8 215	4 625	10 028	10 930	7 175	6 933	11 322	11 692	8 186	9 818	14 178	18 049	6 538	6 816
Health service occupations	11 211	11 311	10 271	10 127	13 412	13 201	17 167	17 555	13 018	13 463	8 907	5 675	20 659	22 074	10 325	15 763
Cleaning and building service occupations, except household	11 912	12 545	9 574	10 127	11 405	11 646	10 176	9 266	11 373	11 900	8 907	9 705	16 921	17 373	15 567	15 763
Personal service occupations	10 157	10 357	11 139	—	11 982	12 175	9 170	12 369	18 732	21 271	10 156	9 331	22 151	23 511	17 307	—
Farming, forestry, and fishing occupations	11 159	10 946	9 168	11 729	11 971	12 543	9 013	14 341	11 425	11 919	11 955	8 229	18 931	19 582	15 175	10 005
Precision production, craft, and repair occupations	17 537	17 880	14 067	14 105	17 229	17 464	14 119	14 259	17 358	17 802	13 635	12 822	22 460	23 099	20 006	15 666
Mechanics and repairers	17 219	17 472	14 067	14 681	16 363	16 513	14 859	13 657	17 358	17 802	13 635	12 822	22 460	23 099	20 006	15 666
Supervisors, mechanics and repairers	21 910	22 664	14 005	10 998	21 363	21 364	14 459	13 745	22 255	22 315	21 026	18 404	26 749	26 975	28 172	14 385
Automobile mechanics, including body	14 927	15 394	12 394	12 986	14 886	15 046	14 567	13 366	14 878	15 304	13 058	8 424	16 814	17 477	14 637	15 914
Industrial machinery repairers	17 829	18 000	16 147	15 162	16 445	16 583	14 075	14 417	15 863	16 124	12 613	13 014	22 550	22 773	20 805	20 760
Electronic repairers, communications and industrial equipment	16 466	17 236	10 693	8 871	16 199	16 352	15 586	19 412	14 476	14 984	10 358	11 615	19 539	20 486	16 340	16 011
Heating, air conditioning, and refrigeration mechanics	15 181	15 472	9 761	18 422	15 074	15 388	11 913	11 753	15 630	15 781	12 557	13 745	20 611	20 804	19 414	16 011
Other mechanics and repairers	16 755	17 001	14 779	14 859	16 413	16 549	15 343	13 347	16 732	17 121	13 487	13 347	22 048	22 289	20 750	18 048
Construction trades	15 759	16 107	12 010	12 546	16 941	17 257	12 427	12 970	16 405	17 016	12 345	12 033	23 314	23 675	20 538	15 894
Supervisors, construction occupations	22 272	22 622	14 505	12 108	21 830	21 978	20 610	14 701	22 036	22 102	15 479	15 863	27 729	27 729	23 779	15 005
Carpenters	12 839	13 148	9 679	10 533	13 711	13 888	12 117	11 892	14 916	14 762	9 804	12 794	18 576	19 135	13 030	20 968
Electricians	19 059	19 185	9 888	16 877	18 133	18 383	12 518	16 425	14 607	14 354	12 350	11 357	24 903	25 056	23 316	20 968
Painters, construction and maintenance	10 650	10 972	9 888	7 811	12 550	12 922	9 981	11 215	18 779	18 887	16 927	15 843	24 590	24 751	23 316	20 968
Plumbers, pipefitters, and steamfitters	16 992	17 424	12 025	14 990	18 088	18 364	12 602	12 400	18 779	18 887	16 927	15 843	24 590	24 751	23 316	20 968
Other construction trades	14 645	14 873	10 806	13 297	14 601	14 752	12 160	12 699	15 445	15 714	11 839	15 733	16 955	17 806	14 350	15 582

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed makes 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraneous occupations	12 773	13 555	9 585	18 461	15 691	16 157	11 353	9 236	18 012	14 637	45 575	5 005	17 328	17 530	14 628	—
Precision production occupations	17 964	18 322	14 288	14 295	17 494	17 743	14 048	14 529	17 860	18 344	14 044	12 876	24 105	24 440	21 988	16 868
Supervisors, production occupations	20 269	20 619	16 091	16 054	15 848	21 989	18 126	17 770	20 485	21 012	16 546	15 923	26 436	26 801	24 320	18 231
Precision metalworking occupations	16 068	16 380	12 960	13 076	15 848	18 030	13 125	14 132	16 466	16 720	13 493	13 271	23 626	22 058	18 112	15 156
Tool and die makers	18 587	18 775	15 219	15 508	18 752	18 906	13 910	15 661	18 574	18 690	14 323	12 626	23 626	23 787	21 357	19 112
Machinists	14 772	15 086	12 959	12 415	14 905	16 036	13 910	13 786	15 083	15 347	12 988	12 635	17 566	18 073	13 962	13 107
Sheet metal workers	15 202	15 474	11 712	12 737	14 857	14 984	11 680	14 844	17 722	17 880	15 762	13 918	21 536	21 875	19 296	14 258
Other precision metal workers	16 344	16 591	12 804	12 843	17 362	17 544	13 110	15 238	17 639	17 880	15 762	13 918	23 343	23 505	20 284	14 084
Precision textile, apparel, and furnishings machine workers	11 061	11 994	9 813	12 005	12 894	13 215	8 582	10 813	12 681	12 443	6 905	4 002	8 985	13 729	29 212	36 959
Precision food production occupations	14 012	14 802	11 852	11 574	12 583	13 517	13 317	12 195	12 339	12 443	15 837	10 712	6 735	10 247	5 973	145
Precision inspectors, testers, and related workers	14 861	15 093	11 852	10 777	16 693	17 051	11 327	16 082	14 525	14 712	12 922	11 111	20 794	21 128	17 778	17 391
Plant and system operators	20 041	20 418	14 725	12 966	21 977	22 482	11 327	15 882	21 782	22 187	16 885	16 435	24 621	25 201	17 961	24 005
Other precision production occupations	12 930	13 389	11 491	10 255	12 558	12 907	10 426	10 584	10 292	10 886	9 383	8 206	20 276	21 123	15 432	9 590
Operators, fabricators, and laborers	12 704	13 035	11 471	10 670	14 009	14 303	12 350	11 336	12 439	12 887	10 951	9 742	16 877	17 377	15 616	13 386
Machine operators, assemblers, and inspectors	12 800	13 125	11 491	10 670	14 187	14 463	12 354	11 612	12 506	12 952	11 084	9 846	16 829	17 282	15 532	13 553
Machine operators and tenders, except precision	12 763	13 087	11 620	10 628	14 377	14 642	12 681	11 818	12 532	13 364	11 684	10 289	17 294	17 739	16 111	12 233
Metalworking and plastic working machine operators	13 279	13 561	11 700	11 477	14 898	15 078	13 200	13 062	13 577	13 851	12 064	11 146	18 012	18 366	16 847	12 933
Fabricating machine operators, n.e.c.	12 887	13 291	9 617	10 799	13 391	13 493	12 111	13 062	15 011	15 399	13 872	8 811	16 128	16 208	15 729	10 327
Metal and plastic processing and woodworking machine operators	12 321	12 557	12 139	10 461	16 190	16 551	12 889	12 492	12 822	13 004	13 067	11 333	17 092	17 452	16 556	12 099
Printing machine operators	16 832	17 055	15 215	16 706	13 901	14 089	9 837	7 677	12 286	12 437	14 365	9 172	17 162	17 743	16 278	17 930
Textile machine operators	13 005	13 287	20 905	9 672	9 784	12 704	9 784	9 990	11 142	11 374	9 886	7 075	14 393	15 394	9 749	—
Textile sewing machine operators	12 994	13 279	12 679	13 730	10 865	11 079	8 023	9 990	9 533	9 568	9 427	8 313	14 928	16 949	10 276	8 158
Laundry and dry cleaning machine operators	14 680	14 743	14 348	14 005	9 750	14 064	4 497	17 431	15 791	17 431	15 630	—	21 794	22 783	15 205	—
Packaging and filling machine operators	13 747	13 791	13 198	11 458	13 401	14 036	7 568	11 912	12 155	12 444	12 444	9 443	14 467	16 053	11 583	9 987
Food, kind, and oven operators, except food	14 165	14 522	12 959	12 215	15 850	16 020	15 254	13 281	14 388	14 770	12 524	11 007	20 188	21 301	17 286	15 048
Other specified machine operators	11 928	12 169	11 233	9 877	12 762	12 987	11 819	10 790	12 117	12 498	10 604	9 870	16 491	16 819	15 878	13 110
Miscellaneous and not specified machine operators	12 393	12 768	11 372	10 190	13 689	14 007	12 465	10 903	12 732	13 275	11 469	9 992	16 564	17 084	15 413	11 425
Fabricators, assemblers, and hand working occupations	12 456	12 782	10 878	10 896	13 458	13 741	12 209	11 095	11 508	11 960	10 281	9 150	16 006	16 420	14 907	13 946
Workers and cutters	9 086	10 332	11 212	12 073	13 674	13 880	12 511	11 830	13 230	13 588	11 669	11 402	15 730	15 125	15 075	12 676
Solders and brazers	11 394	11 724	10 533	9 713	11 434	11 588	10 911	8 556	8 266	8 538	7 135	6 471	14 935	15 889	10 075	11 009
Assemblers	12 060	12 437	10 075	9 866	13 945	14 365	9 906	11 510	11 212	11 679	10 024	8 865	16 089	16 530	14 875	14 345
Hand working occupations	14 961	15 175	13 726	13 275	15 930	16 160	13 987	13 715	13 860	14 291	11 291	9 450	16 472	17 058	11 414	16 908
Production inspectors, testers, samplers, and weighers	11 102	11 292	10 982	10 542	11 677	12 244	10 155	10 624	11 329	11 837	10 393	24 225	15 641	16 695	17 343	17 149
Graders and sorters, except agricultural	15 048	15 265	13 777	13 422	15 968	16 191	14 066	13 820	13 880	14 311	11 307	10 768	18 896	19 219	18 213	12 160
Other production inspectors, testers, samplers, and weighers	13 857	14 257	12 414	11 536	14 274	14 593	12 633	11 447	13 523	13 902	11 889	10 518	18 278	18 696	16 864	17 248
Transportation and material moving occupations	14 344	14 773	12 947	10 499	14 143	14 604	11 377	10 768	15 223	15 887	12 425	10 619	18 224	18 733	16 918	14 671
Motor vehicle operators	14 310	14 735	12 928	10 485	14 084	14 541	11 352	10 768	15 253	15 862	12 355	10 619	18 226	18 714	16 976	12 640
Truck drivers	13 349	13 781	12 866	10 525	14 152	14 593	11 523	10 547	15 325	15 925	12 285	10 619	18 277	18 741	17 083	12 722
Driver-sales workers	13 670	13 402	15 405	13 049	13 949	14 007	13 118	11 905	12 536	12 876	4 405	12 155	18 277	18 741	13 593	12 736
Other motor vehicle operators	13 342	13 670	13 791	13 005	12 894	13 805	8 493	12 626	14 926	15 671	13 110	13 282	18 229	18 803	16 833	9 605
Rail and water transportation occupations	17 278	17 843	14 263	14 001	17 498	18 040	13 843	12 823	17 296	17 078	10 837	10 466	18 306	18 779	16 677	12 772
Material moving equipment operators	13 556	13 832	12 110	12 123	14 344	14 587	13 299	11 797	12 663	12 938	11 619	10 466	18 306	18 779	16 677	10 045
Supervisors, material moving equipment operators	19 771	19 885	17 990	17 171	21 755	22 049	23 432	11 013	19 013	19 240	11 619	15 303	28 063	28 064	28 239	16 157
Crane, hoist, and winch operators	14 354	14 481	13 504	13 379	16 041	16 156	15 236	15 379	15 500	15 381	16 726	16 090	20 231	20 365	20 550	21 105
Excavating, grading, and dozer machine operators	10 853	11 075	8 052	12 103	13 977	14 336	10 155	18 325	15 231	15 391	16 726	16 090	20 231	20 365	20 550	20 744
Other material moving equipment operators	13 238	13 628	11 519	11 744	13 779	14 026	12 783	11 102	12 189	12 464	11 107	10 027	17 634	17 999	16 219	15 468
Handlers, equipment cleaners, helpers, and laborers	10 821	11 071	10 410	9 067	11 718	12 072	10 296	8 744	10 956	11 440	9 201	8 500	15 260	15 629	14 875	10 293
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	16 751	17 039	12 005	7 759	19 110	19 110	9 005	7 781	23 230	23 230	—	9 045	17 002	16 654	18 533	—
Helpers, craft and production	7 743	9 952	6 945	7 369	12 223	12 597	9 501	9 005	9 863	9 792	11 147	8 818	12 248	12 528	13 680	8 354
Construction laborers	12 562	13 324	10 542	7 369	12 328	13 869	9 501	11 330	13 459	13 700	8 894	8 909	14 400	16 931	9 240	—
Freight, stock, and material handlers	11 720	11 961	10 438	9 462	13 328	13 869	9 501	11 330	10 958	11 346	8 894	8 909	16 799	16 931	16 687	12 363
Garage and service station occupations, and equipment cleaners	10 350	10 836	7 979	8 988	12 034	12 665	8 851	8 107	9 870	9 976	9 388	8 483	16 098	16 948	15 029	8 376
Hand packers and packagers	11 050	11 313	11 160	9 017	12 268	12 477	11 527	8 386	9 951	10 559	8 306	8 019	14 618	15 233	12 402	10 359
Laborers, except construction	10 663	10 864	10 493	9 348	11 394	11 678	10 587	8 659	11 541	12 089	9 633	8 606	14 808	15 036	14 844	10 452

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Fabricated metal industries				Machinery, except electrical			Electrical machinery, equipment, and supplies			Motor vehicles and motor vehicle equipment		
	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White			Total	White		Total	White		Total	White	
Employed females 16 years and over	9 205	9 335	8 700	7 387	10 113	10 201	9 736	9 300	9 446	9 108	12 449	12 471	9 642
Managerial and professional specialty occupations	14 113	14 197	12 330	12 597	15 048	15 050	15 290	13 746	13 781	13 461	17 477	17 316	13 136
Executive, administrative, and managerial occupations	14 135	14 244	11 637	12 480	14 889	14 949	14 413	13 803	13 845	13 553	16 928	16 800	11 760
Officials and administrators, public administration	17 255	17 255	—	—	—	—	—	16 005	16 005	—	—	—	—
Financial managers	14 879	14 895	12 043	12 907	16 770	16 905	14 740	15 735	15 794	14 292	16 151	16 056	12 213
Managers, marketing, advertising, and public relations	13 912	13 962	14 719	24 659	17 098	17 210	11 311	16 041	16 048	16 348	13 741	13 800	6 329
Administrators, education and related fields	6 813	8 005	—	—	12 938	12 933	—	16 151	16 151	—	16 024	11 755	21 005
Managers, medicine and health	—	—	—	—	17 093	16 948	—	15 825	15 825	—	18 224	17 899	9 255
Other specified managers	14 625	14 720	14 803	12 474	17 093	16 948	19 445	15 825	15 825	13 673	19 539	16 641	10 188
Managers and administrators, n.e.c.	15 949	15 751	12 733	12 733	16 765	16 622	15 933	14 874	14 874	14 863	19 283	17 413	10 188
Self-employed	9 400	8 624	9 736	11 637	9 436	9 390	—	8 977	8 406	33 173	4 504	4 504	—
Management related occupations	12 616	12 693	11 223	11 116	13 052	13 078	13 014	12 483	12 456	12 773	17 216	17 047	13 630
Accountants and auditors	12 563	12 622	10 892	12 320	12 779	12 793	12 627	12 483	12 528	11 655	16 855	16 742	13 997
Personnel, training, and labor relations specialists	12 885	12 943	12 530	10 888	14 571	14 668	14 314	12 378	12 085	14 515	18 773	18 457	10 452
Buyers and purchasing agents	11 954	11 976	12 658	9 822	12 390	12 409	12 504	9 958	9 958	11 878	15 766	15 661	16 996
Inspectors and compliance officers	12 152	12 878	8 005	—	14 041	13 968	15 250	12 056	12 072	12 528	9 323	9 323	—
Other management related occupations	16 269	16 883	5 747	10 675	14 041	13 968	15 250	15 076	15 123	16 574	19 443	19 608	—
Professional specialty occupations	14 012	13 690	14 485	13 076	15 402	15 280	16 728	13 636	13 656	13 276	18 519	18 314	16 120
Engineers, architects, and surveyors	13 870	13 979	15 396	13 786	15 184	15 180	14 250	13 898	13 935	12 161	18 542	18 410	22 314
Architects	14 935	—	—	—	24 492	24 492	—	12 005	12 005	—	21 175	21 175	—
Engineers	13 664	13 690	15 396	13 786	15 166	15 160	14 250	13 899	13 935	12 161	18 529	18 394	22 314
Civil engineers	8 133	7 822	—	—	10 926	11 435	7 005	8 518	7 982	12 005	5 725	5 725	—
Electrical and electronic engineers	17 476	15 144	23 005	—	18 471	18 415	16 108	14 581	14 763	11 516	15 621	15 621	—
Industrial engineers	12 783	12 558	14 648	13 035	13 931	13 838	15 108	12 804	12 791	12 460	17 482	16 981	15 233
Mechanical engineers	15 517	15 959	9 735	17 620	15 544	15 789	12 536	14 258	14 640	9 448	19 255	19 363	27 035
Other engineers	16 355	16 246	19 075	14 975	16 271	16 405	—	14 964	14 821	14 385	20 587	21 905	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	16 185	16 185	—	21 498	17 145	17 069	17 719	15 348	15 504	14 346	19 301	18 870	22 005
Operations and systems researchers and analysts	16 360	16 360	—	—	16 497	16 424	15 124	15 348	15 301	18 200	20 229	21 513	—
Mathematical scientists	12 026	12 308	—	—	16 497	16 424	15 124	15 348	15 301	18 200	20 229	21 513	—
Natural scientists	16 861	16 308	10 005	13 719	17 027	16 920	15 035	14 061	14 061	17 777	19 279	19 628	17 005
Chemists, except biochemists	16 861	16 813	10 005	8 005	17 892	17 875	15 123	12 405	12 589	9 436	19 185	19 442	17 005
Other natural scientists	12 206	13 102	10 005	8 005	17 892	17 875	15 123	12 405	12 589	9 436	19 185	19 442	17 005
Health diagnosing occupations	12 005	12 005	12 005	—	37 105	36 626	53 005	16 703	16 703	8 657	17 197	17 197	—
Health assessment and treating occupations	13 305	13 013	17 912	16 005	13 093	13 845	15 312	15 099	15 099	18 172	44 705	30 005	59 405
Registered nurses	13 292	12 997	17 912	16 005	13 940	13 877	15 312	13 912	13 835	20 911	19 543	19 238	22 805
Other health assessment and treating occupations	14 955	14 955	—	—	13 075	1 165	14 776	20 322	21 322	13 005	19 512	19 202	22 805
Teachers, except postsecondary	10 001	10 001	—	—	16 779	16 784	17 267	11 714	11 726	13 177	22 852	22 852	—
Social scientists and urban planners	12 777	13 190	2 005	9 832	16 224	16 080	19 051	13 450	12 997	21 973	11 752	12 348	18 005
Social and recreation workers	9 009	8 377	10 905	—	13 743	13 743	—	12 372	14 133	6 505	15 679	15 799	7 918
Lawyers and judges	32 648	33 844	—	—	24 981	24 904	25 584	22 143	22 850	10 505	19 025	22 032	10 005
Writers, artists, entertainers, and athletes	12 035	11 972	11 525	12 197	14 181	14 087	12 971	12 260	12 402	11 657	22 020	20 436	27 169
Other professional specialty occupations	12 478	13 055	—	8 005	12 184	12 047	12 988	13 239	13 192	14 005	17 634	17 685	—
Technical, sales, and administrative support occupations	9 239	9 272	9 038	7 771	9 952	9 936	10 211	9 917	9 944	9 956	12 820	12 794	8 924
Technicians and related support occupations	10 633	9 660	10 973	8 914	12 458	12 446	10 211	11 318	11 374	11 127	14 796	14 742	9 937
Health technicians and technicians	9 163	9 637	6 973	—	10 857	11 130	13 051	10 112	10 442	5 237	12 447	12 447	—
Licensed practical nurses	9 163	9 637	6 973	—	10 484	10 433	13 051	8 734	9 290	5 237	13 084	11 468	—
Other health technicians and technicians	9 719	9 719	—	—	14 282	13 261	25 005	11 102	11 215	—	11 491	11 491	—
Engineering and science technicians	9 999	10 725	10 072	8 387	10 773	10 965	9 515	10 709	10 724	10 920	13 681	13 921	5 524
Electrical and electronic technicians	11 019	10 725	12 558	—	10 560	11 031	7 840	10 748	10 748	10 759	13 016	13 016	—
Industrial and mechanical engineering technicians	8 802	9 526	8 959	6 397	12 120	12 376	11 005	10 415	10 592	10 382	9 732	9 732	—
Drafting and surveying technicians	8 896	9 203	4 468	6 397	10 411	10 454	10 640	10 652	10 561	11 390	15 267	15 291	—
Other engineering and science technicians	10 780	10 774	11 859	9 657	11 353	11 527	11 184	10 873	10 747	11 201	13 006	12 860	4 933
Technicians, except health, engineering, and science	12 137	12 052	12 784	16 353	14 504	14 423	16 049	13 330	13 438	12 261	16 481	16 113	20 369
Airplane pilots and navigators	—	—	—	—	15 576	15 576	—	27 505	27 505	—	14 497	14 497	—
Air traffic controllers and broadcast equipment operators	—	—	—	—	9 137	9 137	—	14 007	14 007	—	16 703	16 703	—
Computer programmers	12 359	12 098	15 036	11 395	15 304	15 188	16 947	14 007	14 030	13 669	16 042	16 042	20 369
Other technicians, except health, engineering, and science	11 609	11 923	10 384	18 005	10 917	11 139	10 875	11 957	12 311	10 508	15 874	16 429	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	9 844	9 855	8 417	8 977	12 659	12 762	10 027	13 412	11 065	11 232	8 790	8 552	11 553	11 644	11 563	12 254
Supervisors and proprietors, sales occupations	12 958	12 784	15 405	11 864	14 211	14 515	10 318	14 960	12 199	13 007	6 159	17 516	17 833	17 375	38 005	—
Sales representatives, finance and business services	13 385	13 279	15 405	11 864	14 173	14 481	10 318	14 960	12 613	13 538	6 159	17 516	17 833	17 375	38 005	—
Sales representatives, commodities, except retail	11 462	11 507	—	12 035	14 623	14 814	15 505	9 005	9 916	10 556	11 305	8 982	11 111	11 111	—	—
Sales workers, retail and personal services	10 137	10 132	8 985	6 913	13 370	13 445	10 765	14 452	11 806	11 853	11 051	8 982	12 305	12 389	11 831	12 254
Cashiers	7 383	7 403	8 439	8 092	8 138	8 103	8 154	9 056	8 654	8 999	5 748	6 696	9 713	9 854	9 133	—
Other sales occupations, retail and personal services	8 482	8 544	7 004	9 760	7 933	7 950	7 972	12 514	8 293	8 660	5 969	6 947	9 798	10 178	6 967	—
Sales related occupations	6 400	6 445	5 933	—	8 355	8 280	8 513	5 569	9 045	9 355	5 291	6 125	9 571	9 325	13 049	—
Administrative support occupations, including clerical	4 887	4 887	—	—	8 418	8 259	12 725	3 755	4 129	4 069	5 905	6 125	12 005	—	12 005	—
Supervisors, administrative support occupations	9 162	9 198	8 920	7 484	9 645	9 658	9 946	8 799	9 711	9 740	9 846	8 726	12 780	12 743	13 803	8 834
Computer equipment operators	13 006	13 090	12 906	9 956	13 725	13 746	14 071	12 565	14 003	14 005	14 629	11 122	12 098	17 293	17 178	10 699
Secretaries, stenographers, and typists	9 968	9 891	10 917	7 995	10 445	10 382	11 036	9 383	10 247	10 122	11 580	9 366	13 463	13 354	14 465	8 257
Stenographers and typists	9 254	9 102	8 736	6 807	9 550	9 543	9 802	8 825	9 707	9 739	9 735	8 586	13 089	13 147	13 352	8 476
Receptionists	7 669	7 660	8 678	6 288	7 834	7 754	8 029	9 066	9 963	9 922	9 968	7 753	13 246	13 277	13 352	8 531
Other information clerks	7 177	7 267	5 362	6 501	7 287	7 257	7 836	7 536	7 892	7 796	8 995	7 753	11 988	12 143	12 143	8 140
File clerks	8 078	8 044	5 005	2 197	8 992	8 935	9 351	8 440	7 257	7 404	9 944	6 102	8 088	8 265	7 311	3 940
Other records processing occupations, except financial	7 442	7 489	7 811	7 387	7 824	7 795	8 457	8 482	8 255	8 263	8 689	6 138	10 610	10 233	13 277	9 515
Bookkeepers, accounting, and auditing clerks	9 075	9 075	7 811	7 325	9 832	9 804	10 804	8 530	9 955	10 060	9 415	8 348	13 129	13 506	12 461	11 749
Payroll and timekeeping clerks	9 285	9 307	9 649	7 696	9 499	9 474	10 325	8 374	9 612	9 587	9 635	9 388	10 832	10 656	14 804	8 626
Other financial records processing occupations	9 777	9 779	8 801	11 193	10 592	10 561	11 096	9 290	9 760	9 562	10 027	9 562	13 677	13 570	15 253	14 976
Telephone operators	9 169	9 048	10 815	9 344	9 436	9 505	7 769	8 922	9 850	9 920	10 229	10 160	12 149	11 876	14 034	6 991
Mail and message distributing occupations	7 805	7 733	8 742	6 076	8 403	8 550	7 805	5 630	8 365	8 302	8 458	7 721	12 491	12 222	14 458	—
Production coordinators and expeditors	6 598	6 336	8 543	5 641	6 777	6 785	7 414	3 897	7 792	7 692	8 826	4 331	9 618	10 260	7 029	—
Traffic, shipping, and receiving clerks	10 195	10 381	8 719	7 966	11 187	11 223	10 714	11 121	10 695	10 751	10 635	10 751	10 695	14 543	16 013	8 845
Stock and inventory clerks	9 167	9 272	8 707	8 082	9 536	9 503	10 010	7 758	9 000	9 004	9 424	8 973	11 883	11 676	14 287	6 212
Other material recording, scheduling, and distributing clerks	9 491	9 610	7 813	8 227	10 127	10 107	10 652	9 196	9 549	9 549	10 150	8 797	12 114	12 002	14 013	7 310
Adjusters and investigators	8 637	8 759	9 988	8 805	10 042	10 070	10 935	8 185	9 282	9 481	8 834	10 038	11 814	12 121	13 826	5 127
Date-entry keyers	10 813	10 942	10 154	8 230	11 473	11 477	10 620	10 347	11 005	11 092	10 257	10 527	14 336	14 122	16 853	11 205
Other administrative support occupations	8 951	8 949	9 023	8 199	9 273	9 200	9 504	8 272	9 232	9 310	9 245	9 133	12 916	12 706	14 692	13 408
Service occupations	8 971	8 480	9 115	8 318	9 273	9 254	9 507	8 273	9 113	9 060	10 103	8 287	12 796	12 683	14 265	7 868
Private household occupations	7 568	7 753	7 358	4 593	7 526	7 584	7 346	6 416	7 893	8 019	7 639	5 753	12 512	12 507	12 419	13 760
Protective service occupations	10 881	10 956	11 898	10 005	10 106	9 892	12 345	5 413	11 179	11 350	11 021	9 653	18 041	16 925	20 437	7 445
Guards	10 697	10 881	11 413	10 005	10 130	9 853	12 345	4 943	10 921	11 030	11 021	9 554	18 041	16 925	20 437	7 445
Other protective service occupations	13 441	11 923	19 005	4 410	9 991	9 991	7 007	6 355	14 463	14 493	7 184	10 005	—	—	—	—
Service occupations, except protective and household	7 145	7 380	6 545	4 100	7 295	7 366	4 516	6 917	7 403	7 506	7 084	5 472	11 790	11 921	11 344	14 009
Food preparation and service occupations	5 948	6 075	5 746	1 060	6 204	6 460	4 316	6 917	6 472	6 358	7 084	4 718	8 170	8 282	6 901	6 711
Health service occupations	10 341	10 873	5 176	—	7 113	10 472	1 497	6 532	10 870	11 479	6 797	18 005	12 993	13 061	13 598	—
Cleaning and building service occupations, except household	7 114	7 337	6 627	4 601	7 574	7 672	7 326	6 443	7 500	7 612	7 372	5 493	12 793	13 061	12 207	15 137
Personal service occupations	8 974	9 101	8 643	—	6 289	6 146	6 353	7 05	7 940	8 952	5 506	—	9 608	10 599	6 322	—
Farming, forestry, and fishing occupations	6 420	6 771	3 315	—	8 134	8 454	6 664	8 235	6 887	7 987	7 287	9 195	11 014	12 050	6 005	—
Precision production, craft, and repair occupations	10 244	10 388	9 643	8 994	10 383	10 615	9 793	8 776	9 360	9 597	9 350	7 763	14 141	14 169	14 420	9 826
Mechanics and repairers	10 512	10 949	9 163	9 381	10 282	10 422	10 534	7 791	10 359	10 366	10 353	10 162	12 334	12 434	12 037	11 322
Supervisors, mechanics and repairers	10 925	10 925	—	—	13 110	14 246	9 915	5 474	17 120	17 443	13 605	15 505	13 173	13 173	—	—
Automobile mechanics, including body	7 383	6 561	12 630	—	9 751	9 751	11 433	9 488	10 067	10 620	6 827	16 703	11 562	11 853	10 531	11 838
Industrial machinery repairers	13 545	14 776	9 495	13 605	10 921	11 240	9 319	9 488	11 249	11 141	9 453	16 703	16 175	14 780	22 735	11 189
Electronic repairers, communications and industrial equipment	12 005	12 005	—	—	10 802	11 268	6 295	6 145	9 615	9 665	9 293	8 326	12 792	12 530	14 221	8 979
Heating, air conditioning, and refrigeration mechanics	9 857	9 061	11 015	—	10 061	9 808	9 728	9 476	9 350	9 015	11 864	9 841	23 005	23 005	—	—
Other mechanics and repairers	9 973	10 328	8 782	8 677	10 168	10 256	9 943	7 772	10 320	10 320	10 767	9 802	12 247	12 484	11 507	11 823
Construction trades	8 388	8 195	10 707	7 060	10 248	10 837	7 481	6 925	9 186	9 647	8 709	5 302	11 933	12 201	11 077	2 611
Supervisors, construction occupations	11 891	11 891	—	—	9 628	13 724	7 355	9 640	10 984	11 406	7 318	34 005	34 005	34 005	4 705	605
Carpenters	6 767	6 929	7 438	7 225	10 590	17 022	6 005	6 263	9 953	7 448	6 432	5 446	6 490	6 770	9 434	—
Electricians	13 206	13 206	—	—	10 389	10 022	9 933	6 263	9 317	9 790	8 842	8 587	15 145	15 138	15 792	—
Painters, construction and maintenance	6 626	6 488	8 666	3 980	7 971	8 141	6 775	4 414	8 660	8 682	8 169	8 587	9 836	8 117	15 792	—
Plumbers, pipefitters, and steamfitters	8 091	8 707	12 005	5 520	15 258	15 777	9 205	4 775	5 266	8 010	—	—	15 393	20 003	7 628	—
Other construction trades	8 181	7 455	11 547	10 536	9 376	9 743	7 894	18 005	10 193	10 465	9 424	6 580	12 518	13 110	10 558	10 005

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Precision production, craft, and repair occupations—Con.																
Precision production occupations	2 264	2 264	9 625	9 179	6 901	6 975	6 559	8 962	11 522	10 825	13 862	7 649	19 835	19 835	15 713	9 783
Supervisors, production occupations	10 402	10 547	10 293	10 293	10 410	10 446	9 744	10 997	9 226	9 482	9 200	10 402	15 052	15 052	12 077	11 009
Precision metalworking occupations	12 071	12 207	8 868	8 868	13 576	13 868	11 812	10 997	12 412	12 493	12 416	10 402	17 924	17 924	12 950	9 997
Tool and die makers	9 078	9 178	11 221	9 284	9 666	9 711	9 993	7 650	10 332	10 654	13 215	7 492	12 738	12 738	16 881	7 953
Machinists	1 143	1 143	8 598	8 598	10 653	10 730	11 318	7 048	10 592	10 684	8 218	7 270	12 738	12 738	11 670	7 953
Sheet metal workers	8 441	8 441	8 828	8 828	10 351	10 351	9 523	6 979	8 337	8 671	8 671	7 270	12 738	12 738	11 670	7 953
Other precision metal workers	7 449	7 449	7 172	7 172	10 351	10 351	9 523	6 979	8 337	8 671	8 671	7 270	12 738	12 738	11 670	7 953
Precision textile, apparel, and furnishings machine workers	5 769	5 769	6 276	6 276	7 992	7 992	7 326	5 802	12 852	12 852	12 852	11 318	13 285	13 285	13 291	13 405
Precision food production occupations	7 808	7 808	7 808	7 808	4 844	4 844	5 282	7 011	6 701	7 027	5 271	9 311	10 569	10 569	11 458	6 291
Precision inspectors, testers, and related workers	9 381	9 381	9 665	9 665	10 353	10 353	9 283	8 733	9 329	9 344	10 065	7 914	11 012	11 012	11 027	7 930
Paint and system occupations	11 333	10 859	15 673	15 673	10 353	11 415	11 420	14 805	13 144	11 050	7 888	56 210	12 191	12 191	19 415	7 930
Other precision production occupations	8 798	8 932	8 673	4 759	8 411	8 443	8 369	8 476	7 673	7 828	7 888	6 745	10 383	10 383	7 117	7 930
Operators, fabricators, and laborers	8 461	8 574	8 459	8 459	8 999	9 090	9 031	7 542	8 476	8 573	8 669	7 022	11 585	11 585	12 198	9 641
Machine operators, assemblers, and inspectors	8 542	8 641	8 575	8 575	8 995	9 078	9 004	7 610	8 496	8 583	8 739	6 063	11 559	11 559	12 782	9 798
Machine operators and tenders, except plastic machine operators	8 557	8 646	8 532	7 331	9 090	9 166	9 025	7 496	8 770	8 861	9 008	6 847	11 285	11 285	11 782	9 269
Metalworking and plastic working machine operators	8 794	8 772	9 456	8 011	7 726	7 744	10 011	8 128	9 200	9 255	9 430	6 919	11 814	11 814	12 136	10 438
Fabricating machine operators	7 995	8 067	7 524	6 807	8 499	8 842	6 750	5 067	8 455	8 353	9 813	7 193	9 822	9 822	12 157	5 302
Metal and plastic processing and woodworking machine operators	8 016	8 045	8 519	6 424	8 421	8 663	6 385	9 092	8 886	8 896	8 897	7 346	10 549	10 549	10 335	12 917
Printing machine operators	8 976	9 182	9 539	6 005	8 421	8 937	8 999	5 967	8 705	8 721	8 559	7 253	10 906	10 906	8 590	12 917
Textile machine operators	8 307	8 685	7 408	7 623	7 086	7 332	6 364	5 817	6 100	6 254	6 228	4 756	13 130	13 130	12 494	12 605
Textile sewing machine operators	10 747	13 311	7 841	6 267	10 428	11 338	8 657	6 944	5 475	4 683	6 125	4 935	8 572	8 572	10 434	5 357
Laundry and dry cleaning machine operators	8 538	8 796	8 336	6 267	6 713	8 813	8 657	3 580	8 093	8 340	9 281	6 882	11 719	11 719	14 940	5 005
Packaging and filling machine operators	8 941	9 343	7 795	6 165	10 576	10 556	8 393	11 108	8 277	13 506	9 281	7 370	10 853	10 853	12 711	8 034
Furnace, kiln, and oven operators, except food	7 896	7 968	8 274	6 530	8 362	8 393	8 144	9 277	8 393	8 373	9 566	6 761	11 461	11 461	12 711	8 034
Other specified machine operators	8 569	8 723	8 254	7 296	8 934	9 034	9 006	7 380	8 762	8 870	8 969	7 346	10 811	10 811	11 441	8 307
Miscellaneous and not specified machine operators	7 972	8 076	8 008	6 813	8 542	8 601	8 715	7 328	8 079	8 149	8 395	6 809	11 584	11 584	12 362	10 072
Fabricators, assemblers, and hand working occupations	8 601	8 611	9 123	7 164	9 374	9 329	7 478	7 706	8 212	8 287	8 264	6 921	11 857	11 857	12 007	11 375
Molders and finishers	7 672	7 672	8 596	8 596	8 421	8 421	8 421	6 718	7 230	7 251	7 663	6 564	8 728	8 728	9 824	9 153
Solders and brazers	7 902	8 014	6 525	6 525	8 203	8 203	8 203	7 321	8 127	8 200	8 439	6 846	11 593	11 593	12 398	10 041
Assemblers	7 023	7 663	6 081	6 249	8 243	8 538	7 898	7 898	7 404	7 555	7 387	4 284	10 350	10 350	11 417	5 862
Hand working occupations	10 057	10 109	10 633	7 904	8 377	10 319	10 340	9 176	9 476	9 568	9 574	8 752	12 989	12 989	13 015	10 224
Graders and sorters, except agricultural	7 329	7 612	6 845	7 224	7 569	7 425	7 518	8 698	6 766	7 424	6 474	3 955	9 188	9 188	10 070	8 307
Other production inspectors, testers, samplers, and weighers	10 158	10 193	8 857	7 933	10 285	10 356	10 426	9 196	9 518	9 594	9 689	8 844	13 032	13 032	13 085	10 224
Transportation and material moving occupations	9 699	9 659	10 888	8 507	11 016	11 025	11 184	7 868	9 545	9 690	9 059	8 340	12 557	12 557	13 453	9 932
Transportation occupations	8 665	8 711	8 357	3 837	9 498	9 163	11 608	7 681	9 604	9 297	9 180	8 709	12 722	12 722	13 131	10 005
Motor vehicle operators	8 832	8 935	8 337	3 837	9 400	9 078	11 608	7 681	9 695	9 697	9 321	8 709	12 591	12 591	12 582	10 005
Truck drivers	8 893	9 327	8 642	3 837	9 740	9 269	13 180	7 302	10 214	9 805	9 375	8 709	12 602	12 602	11 970	10 005
Driver-sales workers	6 477	6 477	8 187	—	4 790	5 469	5 173	4 505	12 196	12 196	—	—	18 872	18 872	18 811	10 005
Other motor vehicle operators	7 838	7 784	8 187	—	10 657	10 737	10 005	14 005	9 216	8 321	9 216	—	12 219	12 219	13 268	10 005
Rail and water transportation occupations	12 005	12 005	11 335	9 420	20 035	20 035	11 051	7 978	5 924	4 880	8 734	8 315	12 947	12 947	15 125	9 926
Material moving equipment operators	9 917	9 917	12 005	—	11 464	11 557	10 120	22 105	9 539	9 731	9 049	—	12 483	12 483	13 361	9 926
Supervisors, material moving equipment operators	15 225	15 225	9 684	11 589	16 769	16 769	12 535	15 005	12 561	12 561	26 713	—	26 713	26 713	32 005	—
Crane, hoist, and winch operators	9 859	9 859	14 505	—	12 487	12 535	8 605	13 005	8 000	8 000	9 508	—	14 688	14 688	25 985	—
Excavating, grading, and dozer machine operators	8 750	2 035	11 462	8 615	11 291	11 380	10 891	7 836	9 503	9 694	9 035	8 315	11 886	11 886	13 068	9 926
Other material moving equipment operators	9 894	9 770	—	—	11 291	11 380	10 891	7 836	9 503	9 694	9 035	8 315	11 886	11 886	13 068	9 926
Handlers, equipment cleaners, helpers, and laborers	7 739	7 739	7 357	5 817	8 491	8 693	8 260	6 798	7 999	8 233	7 526	6 274	9 989	9 989	10 848	7 898
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	7 725	7 725	10 673	6 676	8 912	9 000	8 711	10 261	10 699	12 841	7 065	8 505	9 421	9 421	12 472	4 871
Helpers, craft and production	8 045	7 967	15 083	—	4 274	2 818	8 205	—	8 687	8 134	9 557	—	12 159	12 159	10 103	12 243
Construction laborers	8 297	7 995	6 870	5 060	8 723	8 630	9 193	5 937	8 159	8 385	7 552	6 218	11 187	11 187	10 103	12 243
Freight, stock, and material handlers	8 110	8 480	—	—	8 377	8 840	7 190	8 675	8 709	8 800	7 335	12 689	11 382	11 382	13 884	7 760
Garage and service station occupations, and equipment cleaners	7 395	7 836	5 704	313	8 377	8 714	8 288	7 020	7 954	8 153	7 654	6 017	9 857	9 857	10 689	7 499
Hand packers and packagers	7 923	8 039	8 114	5 957	8 542	8 542	8 171	6 439	7 863	8 173	7 213	6 399	9 857	9 857	10 732	7 499
Laborers, except construction	7 369	7 645	6 577	5 812	8 386	8 679	8 127	8 439	7 863	8 173	7 213	6 399	9 857	9 857	10 732	7 499

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

United States

Employed males 16 years and over

Managerial and professional specialty occupations	21 058	21 591	15 875	15 776	16 072	16 586	13 165	13 499	17 220	18 256	10 772	10 404	18 619	19 286	14 338	15 233
Executive, administrative, and managerial occupations	27 300	27 593	21 621	22 934	25 124	25 430	17 390	22 875	27 872	28 307	18 829	20 617	24 970	25 319	20 293	20 956
Offices and administrative, public administration	30 657	31 026	22 883	23 875	27 411	27 661	19 491	21 428	30 592	31 072	19 441	21 234	26 678	27 072	19 236	21 967
Financial managers	31 918	32 327	19 849	25 125	28 767	29 042	19 969	22 005	31 408	31 659	20 913	25 529	28 276	28 001	19 312	20 063
Managers, marketing, advertising, and public relations	35 718	36 012	24 122	38 627	28 786	28 806	25 609	21 505	32 428	32 579	26 501	28 288	29 336	28 545	19 278	20 949
Administrators, education and related fields	36 299	37 076	—	—	24 484	24 484	—	—	39 252	42 525	1 585	27 005	25 506	26 810	17 119	24 456
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	27 566	27 743	24 714	26 661	24 430	24 921	15 317	16 480	26 300	26 764	24 233	12 691	24 213	24 393	22 141	19 732
Managers and administrators, n.e.c.	32 244	33 542	27 394	26 217	30 760	30 886	23 213	24 663	32 564	33 057	18 451	22 832	27 942	28 334	20 837	23 023
Salaried	33 346	35 649	27 394	26 029	31 716	31 891	23 945	25 253	33 275	33 819	17 481	22 257	28 134	28 535	20 824	22 950
Self-employed	23 207	23 135	—	32 076	18 238	17 804	15 005	10 094	23 448	23 289	31 782	28 594	24 628	24 826	21 042	24 018
Management related occupations	22 382	22 620	18 895	18 544	20 562	20 848	17 217	16 153	21 843	22 230	17 709	15 695	21 840	22 199	18 079	18 376
Accountants and auditors	22 233	22 564	17 337	17 117	21 494	21 850	17 412	15 292	21 178	21 514	18 509	16 182	20 743	21 122	15 718	17 870
Personal, training, and labor relations specialists	24 959	25 385	17 192	20 639	19 284	19 284	18 191	19 284	22 405	23 238	18 164	17 208	24 231	24 561	17 574	20 277
Buyers and purchasing agents	20 254	20 467	17 206	19 259	19 121	19 296	16 280	14 748	19 418	19 609	14 746	13 883	20 285	20 487	17 365	18 141
Inspectors and compliance officers	21 889	22 440	17 979	14 320	20 072	20 073	5 482	23 005	18 377	19 698	5 168	19 033	19 033	19 388	16 179	16 493
Other management related occupations	25 019	25 146	23 316	16 844	20 118	20 138	18 725	13 505	31 028	31 248	24 683	12 255	24 543	24 919	17 464	18 666
Professional specialty occupations	25 755	25 974	20 930	22 479	22 705	22 958	16 186	24 800	23 278	23 515	17 988	19 333	21 903	22 118	17 767	19 078
Engineers, architects, and surveyors	26 126	26 337	21 082	23 104	23 357	23 584	15 701	25 520	23 408	23 588	17 925	20 982	23 900	24 060	19 956	23 180
Architects	22 775	25 285	—	—	21 289	23 250	—	—	22 401	23 048	34 505	25 467	24 069	24 672	18 522	26 041
Engineers	26 128	26 337	21 082	23 104	23 357	23 584	15 701	25 520	23 408	23 588	17 925	20 982	23 900	24 060	19 956	23 180
Civil engineers	26 845	26 661	22 953	24 195	24 456	24 509	16 343	25 520	23 411	23 588	18 667	20 918	23 943	24 100	19 113	19 744
Electrical and electronic engineers	26 182	26 429	22 214	25 118	22 599	22 627	16 424	23 320	23 621	23 687	18 242	22 210	23 727	23 863	19 934	22 478
Industrial engineers	22 501	22 683	19 575	21 283	21 704	22 048	16 244	18 113	21 585	21 796	18 425	19 243	23 369	23 484	20 192	21 919
Mechanical engineers	25 713	25 779	26 377	21 398	24 556	24 360	16 746	22 640	24 002	24 054	21 615	23 660	25 224	24 674	17 234	26 696
Other engineers	26 945	27 195	20 559	23 151	23 949	24 142	16 253	22 640	24 156	24 423	17 117	20 216	25 224	25 380	22 026	26 398
Surveyors and mapping scientists	34 615	34 615	—	—	26 313	26 313	—	—	—	—	—	—	18 734	18 904	12 064	13 518
Computer systems analysts and scientists	23 397	23 622	19 980	22 203	21 988	21 793	23 194	18 178	22 875	23 131	14 273	18 439	23 812	23 881	21 289	22 869
Operations and systems researchers and analysts	23 526	23 744	20 432	18 921	19 672	19 911	16 253	23 904	23 904	24 011	21 379	15 121	23 693	23 688	23 117	19 731
Natural scientists	24 117	24 478	20 957	17 628	20 707	22 446	1 005	—	25 207	26 716	24 387	10 005	22 016	22 210	20 428	19 731
Chemists, except biochemists	25 906	26 674	15 863	23 036	19 883	19 333	17 069	13 872	24 593	25 073	19 167	18 333	20 918	23 165	19 113	19 744
Other natural scientists	22 229	23 733	15 863	14 159	19 835	20 332	17 658	10 585	24 408	24 918	20 024	10 125	19 482	19 398	19 341	16 278
Health diagnosing occupations	28 367	28 383	19 705	28 033	20 119	20 864	10 585	10 765	41 032	42 530	16 208	12 005	20 971	21 249	12 844	17 305
Health assessment and treating occupations	19 305	19 305	—	16 125	22 963	23 126	18 205	10 405	17 952	18 276	18 956	12 605	12 928	12 882	13 995	12 703
Registered nurses	16 040	16 040	—	16 125	21 917	24 351	14 005	10 405	22 479	19 953	33 005	33 005	20 830	19 953	29 414	—
Other health assessment and treating occupations	21 786	21 786	—	—	25 505	28 003	23 005	—	13 114	16 280	225	12 005	12 533	12 579	10 937	12 703
Teachers, except postsecondary	22 987	23 049	20 209	12 239	17 587	17 776	15 193	5 005	18 131	18 731	10 859	11 641	19 429	19 390	21 129	15 919
Social scientists and urban planners	30 175	30 207	20 852	28 104	30 799	30 799	—	—	28 066	28 368	20 676	27 831	24 435	24 751	20 766	18 974
Social and recreation workers	21 755	21 755	—	—	7 924	7 924	—	—	19 664	20 611	12 505	—	21 210	21 791	16 150	19 920
Lawyers and judges	43 931	44 618	19 245	—	37 139	37 040	38 257	44 005	51 106	51 952	36 251	90 005	39 767	39 955	35 211	32 043
Writers, artists, entertainers, and athletes	21 670	21 730	22 229	18 873	19 720	20 041	16 253	30 006	19 294	19 520	13 402	16 524	17 666	17 887	14 635	14 243
Other professional specialty occupations	20 573	21 522	10 026	18 205	19 575	21 145	14 026	—	22 476	22 394	—	—	18 175	19 191	13 838	19 261
Technical, sales, and administrative support occupations	19 098	19 452	15 341	15 433	17 570	17 875	14 350	15 181	17 956	18 670	11 421	11 692	18 896	19 358	16 084	15 735
Technicians and related support occupations	19 845	20 063	16 993	17 535	18 510	18 616	14 703	16 798	16 403	16 493	13 695	13 548	24 946	25 522	17 436	18 550
Health technologists and technicians	24 147	24 323	—	22 430	17 405	18 273	13 196	18 496	18 001	18 394	13 232	13 283	16 440	16 440	9 570	8 769
Licensed practical nurses	—	—	—	—	18 945	—	—	—	27 109	29 157	20 285	—	15 817	15 445	16 378	8 769
Other health technologists and technicians	24 147	24 323	—	22 430	17 510	18 273	13 196	16 505	17 882	18 275	12 768	13 283	10 386	10 433	9 378	8 769
Engineering and science technicians	19 030	19 267	16 036	16 805	18 569	18 599	15 315	16 912	15 575	15 859	13 539	13 588	18 180	18 300	16 862	15 630
Electrical and electronic technicians	18 868	19 038	16 866	17 620	19 445	19 445	16 652	17 971	14 792	14 990	13 376	14 436	19 910	19 917	19 420	17 432
Industrial and mechanical engineering technicians	21 375	21 474	16 500	18 105	19 416	20 097	13 322	22 755	17 485	18 993	11 588	11 121	19 634	19 634	17 922	22 236
Drafting and surveying technicians	18 236	18 499	15 549	16 488	16 580	16 764	13 496	15 190	15 190	15 502	13 199	12 862	15 891	16 038	13 811	13 939
Other engineering and science technicians	19 532	19 803	15 106	16 184	20 152	19 966	16 648	18 767	16 671	16 954	14 193	13 534	17 840	18 043	15 850	15 170
Technicians, except health, engineering, and science	21 734	21 871	19 772	19 087	18 979	18 756	11 918	15 859	18 088	18 349	14 326	13 469	29 342	29 958	18 976	21 371
Airplane pilots and navigators	29 308	29 519	17 253	12 598	23 456	23 456	—	—	23 107	23 107	—	8 005	39 433	39 672	26 406	29 638
Air traffic controllers and broadcast equipment operators	19 613	19 963	15 005	13 743	13 743	13 743	—	—	22 381	23 361	11 005	—	18 409	18 570	16 923	14 778
Computer programmers	21 536	21 634	21 634	19 111	18 316	18 906	7 629	14 173	18 539	18 627	14 292	13 896	19 704	19 861	17 048	17 048
Other technicians, except health, engineering, and science	20 405	20 419	17 691	19 293	18 175	18 442	13 535	17 039	17 693	18 017	14 402	13 424	20 339	20 431	18 332	19 360

Persons of Spanish origin may be of any race.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations																
Salaried																
Self-employed																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Secretaries																
Stenographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adjusters and investigators																
Data-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Guards																
Other protective service occupations																
Service occupations, except protective and household																
Food preparation and service occupations																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automobile mechanics, including body																
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Electricians																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																
Other construction trades																

Employed males 16 years and over—Con.

Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total
	White	Black			White	Black			White	Black			White	Black		
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	10 832	12 746	4 981	24 005	13 598	13 783	12 665	19 005	12 741	13 328	10 955	12 741	18 242	18 387	17 516	14 042
Precision production occupations	19 699	20 066	16 620	16 368	17 711	17 944	15 645	16 048	16 647	17 169	10 955	16 647	19 369	19 687	15 809	16 658
Supervisors, production occupations	24 294	24 593	19 814	21 353	20 848	21 004	18 916	18 859	19 362	19 893	14 693	19 362	21 249	21 577	17 062	17 451
Precision metalworking occupations	16 754	17 038	14 863	14 843	15 363	15 440	14 273	14 630	14 693	15 064	11 683	14 693	18 595	18 853	15 997	17 574
Tool and die makers	18 302	18 506	15 967	12 073	16 788	16 921	14 892	18 068	18 013	18 163	15 431	18 013	19 098	19 230	17 990	17 991
Machinists	16 874	17 134	14 859	13 346	15 188	15 371	14 081	14 028	14 013	14 177	11 491	14 013	18 417	18 728	15 504	17 515
Sheet metal workers	15 474	15 645	13 282	13 282	15 262	15 371	14 081	14 028	14 013	14 177	11 491	14 013	19 099	19 230	17 990	17 991
Other precision metal workers	16 110	16 478	14 697	14 697	14 435	14 520	13 762	13 065	13 661	14 149	10 436	13 661	18 912	19 128	16 818	16 583
Precision textile, apparel, and furnishings machine workers	13 014	13 289	15 283	9 708	11 582	11 747	13 095	3 345	11 500	12 070	9 594	11 500	12 443	12 643	9 808	9 726
Precision food production occupations	17 089	16 802	17 905	17 321	17 239	17 404	18 455	3 345	11 500	12 070	9 594	11 500	12 443	12 643	9 808	9 726
Precision inspectors, testers, and related workers	18 606	18 625	18 234	23 001	17 961	18 047	12 112	27 388	13 644	14 500	8 998	13 644	19 735	19 775	17 342	17 753
Plant and system operators	22 794	23 001	21 617	22 627	20 222	21 348	9 922	24 497	20 310	20 929	15 049	20 310	16 638	16 870	14 048	14 956
Other precision production occupations	16 580	16 700	19 158	12 657	12 766	13 423	11 067	9 316	13 524	13 986	10 359	13 524	17 553	17 681	17 900	14 095
Operators, fabricators, and laborers	15 773	16 191	14 096	12 974	13 443	13 811	12 280	11 844	10 685	11 205	9 435	10 685	16 371	17 129	12 967	13 654
Machine operators, assemblers, and inspectors	15 910	16 324	14 088	13 223	13 595	13 938	12 461	12 100	10 962	11 468	9 683	10 962	16 429	16 981	12 765	13 986
Machine operators and tenders, except precision	15 674	16 062	14 326	12 559	13 178	13 509	12 112	12 084	11 664	11 732	9 708	11 664	15 441	16 083	12 765	13 164
Metalworking and plastic working machine operators	16 223	16 478	15 317	13 296	13 950	14 255	12 092	12 949	11 503	11 971	8 943	11 503	16 686	17 125	14 516	15 503
Fabricating machine operators, n.e.c.	15 663	15 610	15 955	13 126	14 122	13 825	15 590	15 069	11 020	11 246	9 435	11 020	15 559	16 519	14 495	12 121
Metal and plastic processing and woodworking machine operators	15 341	15 670	14 995	12 913	11 924	12 514	10 369	13 092	10 799	11 124	9 670	10 799	13 430	14 555	9 556	12 471
Printing machine operators	15 876	16 555	14 344	12 634	9 517	11 082	7 655	6 513	12 998	13 279	11 818	12 998	13 757	13 835	9 556	13 920
Textile machine operators	14 314	14 795	5 905	11 333	11 084	11 692	7 868	9 275	8 447	9 050	7 759	8 447	15 738	16 179	12 551	7 581
Textile sewing machine operators	15 912	15 012	18 475	11 333	11 084	11 692	7 868	9 275	8 447	9 050	7 759	8 447	15 738	16 179	12 551	7 581
Laundry and dry cleaning machine operators	15 799	15 799	—	—	13 005	13 245	15 704	5 005	3 843	3 843	6 611	3 843	13 247	13 769	6 930	11 527
Package and filling machine operators	18 095	18 455	16 109	13 781	14 991	14 967	14 495	12 120	12 013	13 349	11 150	12 013	18 500	18 990	16 684	15 875
Food, drink, and tobacco machine operators	15 246	15 387	14 796	13 927	12 664	13 695	13 266	12 451	10 793	11 402	9 684	10 793	14 088	14 853	10 465	16 718
Other specified machine operators	15 115	15 752	13 169	12 282	13 447	13 499	12 412	12 451	9 953	10 324	9 401	9 953	15 103	15 740	12 903	12 903
Miscellaneous and not specified machine operators	15 075	15 532	13 530	13 115	13 237	13 499	12 412	12 451	9 953	10 324	9 401	9 953	15 103	15 740	12 903	12 903
Fabricators, assemblers, and hand working occupations	15 928	16 332	14 997	14 107	13 683	14 037	12 363	11 984	11 984	12 370	10 281	11 984	16 700	17 157	14 021	14 416
Welders and cutters	9 728	9 988	10 670	12 864	11 420	11 696	11 677	13 310	9 712	10 091	8 185	9 712	14 543	14 905	11 825	13 805
Solders and brazers	14 836	15 306	13 140	12 894	13 983	13 753	14 090	12 811	9 300	9 647	8 963	9 300	13 482	14 011	12 252	13 329
Assemblers	15 632	16 042	15 558	13 482	13 983	13 753	14 090	12 811	9 300	9 647	8 963	9 300	13 482	14 011	12 252	13 329
Hand working occupations	17 892	18 172	14 719	15 539	18 390	18 628	16 141	15 285	13 607	13 982	11 272	13 607	18 266	18 581	15 486	12 285
Production inspectors, testers, samplers, and weighers	15 933	15 933	—	—	13 269	13 747	—	—	10 435	11 324	4 963	10 435	11 289	11 758	10 438	10 438
Graders and sorters, except agricultural	17 897	18 179	14 719	15 592	18 421	18 657	16 141	15 285	13 713	14 055	11 614	13 713	18 585	18 893	15 099	16 884
Other production inspectors, testers, samplers, and weighers	16 101	16 507	14 080	12 800	15 031	15 491	13 249	13 151	11 548	12 098	10 281	11 548	17 507	18 171	13 971	14 686
Transportation and material moving occupations	16 266	16 887	13 421	12 045	15 235	15 799	13 371	12 715	12 285	12 930	10 803	12 285	17 573	18 237	13 971	14 686
Transportation occupations	16 283	16 926	13 359	12 106	14 587	15 028	13 544	12 010	12 242	12 880	10 765	12 242	17 723	18 387	13 414	14 715
Motor vehicle operators	16 038	16 770	13 339	11 880	14 355	14 842	13 162	11 172	12 333	12 905	10 950	12 333	17 865	18 416	13 410	14 339
Truck drivers	14 199	13 805	18 205	12 781	8 178	7 750	11 005	—	13 100	13 376	14 079	13 100	16 222	16 838	12 993	15 413
Driver-sales workers	18 331	18 464	12 781	16 131	17 629	17 984	16 880	14 143	13 100	13 376	14 079	13 100	16 222	16 838	12 993	15 413
Other motor vehicle operators	15 357	15 019	18 005	11 107	17 089	17 787	12 416	14 714	10 497	12 176	8 493	10 497	21 536	22 100	17 981	17 981
Rail and water transportation occupations	15 989	16 267	14 675	13 499	14 927	15 334	13 187	13 421	17 950	19 412	12 905	17 950	21 408	22 100	17 981	17 981
Material moving equipment operators	22 655	22 655	—	—	21 385	21 453	19 005	—	17 523	17 523	23 818	17 523	21 408	22 100	17 981	17 981
Supervisors, material moving equipment operators	18 462	18 769	18 084	14 417	15 726	16 086	14 069	14 703	10 880	11 199	9 386	10 880	18 744	19 091	16 439	21 030
Cranes, hoists and winch operators	18 170	18 170	—	—	17 726	17 087	20 735	—	11 401	11 890	5 886	11 401	18 744	19 091	16 439	21 030
Extruding, grinding, and dozer machine operators	14 894	14 894	—	—	13 554	13 976	11 912	12 749	10 107	10 866	9 381	10 107	15 646	15 944	13 831	13 831
Other material moving equipment operators	13 166	13 367	14 218	9 556	11 126	11 318	10 854	9 271	8 618	9 002	8 045	8 618	12 502	13 086	10 883	11 530
Handlers, equipment cleaners, helpers, and laborers	17 321	17 321	—	—	15 173	17 884	10 111	—	17 125	18 729	7 368	17 125	21 010	21 834	16 966	19 221
Supervisors, handlers, equipment cleaners, and laborers	16 427	17 074	12 239	10 567	9 965	9 864	10 337	8 536	7 719	8 380	6 980	7 719	11 678	11 915	11 277	10 346
Helpers, craft and production	13 886	13 597	16 515	16 079	12 669	12 997	11 847	8 957	9 428	9 877	8 446	9 428	13 658	14 235	11 158	12 183
Construction laborers	11 400	12 110	10 557	6 452	11 401	12 230	10 706	10 075	8 209	8 422	7 796	8 209	11 557	11 765	11 183	10 281
Freight, stock, and material handlers	14 730	15 128	14 145	10 632	11 632	11 572	12 506	5 781	7 909	8 149	7 940	7 909	10 169	10 599	8 296	8 296
Garage and service station occupations, and equipment cleaners	12 879	13 072	14 906	7 880	11 167	11 294	11 077	9 628	8 634	8 955	8 128	8 634	11 908	12 463	10 296	11 474
Hand packers and packagers																
Laborers, except construction																

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]																				
United States	Aircraft, space vehicles, and parts					Other transportation equipment					Other durable goods					Transportation, communications, and other public utilities				
	Race				Spanish origin ¹	Race				Spanish origin ¹	Race				Spanish origin ¹	Race				Spanish origin ¹
	Total	White	Black	Total		White	Black	Total	White		Black	Total	White	Black		Total	White	Black		
Employed females 16 years and over	12 330	12 532	11 425	10 161	9 833	9 867	9 941	7 727	8 292	8 515	7 551	6 519	11 587	11 519	12 095	10 774				
Managerial and professional specialty occupations	15 755	15 906	14 354	13 988	13 886	13 873	14 481	9 339	13 313	13 390	12 447	11 273	15 540	15 551	15 967	14 311				
Executive, administrative, and managerial occupations	15 608	15 747	14 516	13 501	13 810	13 752	14 743	10 118	13 710	13 781	13 439	12 006	15 949	15 952	16 462	14 451				
Officials and administrators, public administration	17 195	17 452	18 088	11 924	13 305	13 173	—	—	15 653	15 559	20 579	12 058	17 406	17 516	17 126	14 936				
Financial managers	6 905	6 905	8 985	13 305	13 770	14 048	—	—	14 998	14 922	16 364	11 995	18 120	18 194	19 313	13 323				
Managers, marketing, advertising, and public relations	17 098	17 367	14 300	13 186	12 869	—	—	—	15 036	15 244	13 764	14 046	15 278	15 066	20 449	14 033				
Administrators, education and related fields	17 071	17 043	16 930	13 694	13 826	13 831	15 908	153	14 191	14 337	12 669	12 128	16 296	16 286	17 152	14 534				
Managers, medicine and health	17 199	17 205	16 930	13 694	14 433	14 392	15 908	305	15 028	15 202	13 048	12 679	16 552	16 557	17 196	10 743				
Other specified managers	10 665	10 665	13 927	13 928	13 856	14 293	—	—	7 355	7 317	5 928	6 271	10 504	10 539	11 160	14 539				
Managers and administrators, n.e.c.	14 754	14 895	13 927	14 002	13 928	13 856	14 293	12 546	12 394	12 363	13 134	11 240	15 315	15 387	14 914	14 539				
Self-employed	14 456	14 550	14 949	13 824	13 255	13 341	12 138	11 324	12 410	12 373	12 750	10 461	18 311	18 360	17 839	17 895				
Management related occupations	15 511	15 752	13 839	15 023	14 635	16 733	16 794	12 683	12 683	12 804	12 480	11 137	14 344	14 158	13 907	16 485				
Accountants and auditors	14 065	14 121	13 953	12 615	13 400	13 182	17 336	16 794	11 960	11 812	15 155	11 370	13 231	13 186	14 172	12 181				
Personnel, training, and labor relations specialists	23 227	23 227	17 805	17 033	12 345	12 217	17 005	10 557	13 216	13 258	10 963	16 370	16 574	16 844	15 225	19 702				
Buyers and purchasing agents	15 831	16 249	10 457	12 615	12 615	13 911	17 005	—	12 363	12 434	10 299	9 466	14 554	14 553	15 058	13 991				
Inspectors and compliance officers	15 924	16 088	14 141	14 812	14 119	14 251	13 911	7 615	12 363	12 434	10 299	9 466	14 554	14 553	15 058	13 991				
Other management related occupations	16 469	16 624	14 165	15 315	14 104	14 650	11 028	11 797	17 005	17 005	12 257	13 683	17 627	17 627	18 005	18 809				
Professional specialty occupations	7 005	7 005	16 005	15 315	14 136	14 699	11 028	11 797	17 005	17 005	12 257	13 683	17 627	17 627	18 005	18 809				
Engineers, architects, and surveyors	16 005	16 005	15 315	14 136	14 136	—	—	—	14 243	14 388	12 257	13 683	17 627	17 627	18 005	18 809				
Engineers	16 005	16 005	15 315	14 136	14 136	—	—	—	14 243	14 388	12 257	13 683	17 627	17 627	18 005	18 809				
Civil engineers	16 005	16 005	15 315	14 136	14 136	—	—	—	14 243	14 388	12 257	13 683	17 627	17 627	18 005	18 809				
Electrical and electronic engineers	16 005	16 005	15 315	14 136	14 136	—	—	—	14 243	14 388	12 257	13 683	17 627	17 627	18 005	18 809				
Industrial engineers	16 005	16 005	15 315	14 136	14 136	—	—	—	14 243	14 388	12 257	13 683	17 627	17 627	18 005	18 809				
Mechanical engineers	16 005	16 005	15 315	14 136	14 136	—	—	—	14 243	14 388	12 257	13 683	17 627	17 627	18 005	18 809				
Other engineers	16 005	16 005	15 315	14 136	14 136	—	—	—	14 243	14 388	12 257	13 683	17 627	17 627	18 005	18 809				
Surveyors and mapping scientists	16 264	16 634	13 545	15 368	16 611	16 420	18 159	14 505	16 221	16 132	16 834	6 997	19 406	19 462	18 810	15 049				
Computer systems analysts and scientists	16 590	16 890	12 145	10 733	16 465	16 672	13 719	14 505	16 221	16 132	16 834	6 997	19 406	19 462	18 810	15 049				
Operations research analysts and analysts	15 739	15 698	12 125	15 592	30 195	30 195	—	—	16 970	13 506	2 366	15 253	17 810	15 925	17 372	18 079				
Mathematical scientists	15 880	15 875	19 786	8 005	14 756	9 928	18 779	—	13 897	14 501	10 408	15 253	14 267	12 272	13 556	19 038				
Physicists	16 869	16 701	20 205	16 866	12 065	18 779	—	—	13 897	14 501	10 408	15 253	14 267	12 272	13 556	19 038				
Chemists, except biochemists	13 537	13 531	15 543	8 005	8 005	8 005	—	—	13 733	13 951	12 672	14 245	14 332	14 901	13 898	10 005				
Other natural scientists	28 734	28 548	17 505	14 567	14 614	13 005	—	—	12 646	12 646	15 067	—	25 351	26 204	20 637	12 846				
Health diagnosing occupations	14 650	14 588	14 780	16 713	14 567	14 614	13 005	—	14 342	14 297	15 067	—	12 876	12 604	19 431	12 881				
Health assessment and treating occupations	14 528	14 382	14 780	16 713	14 578	14 625	13 005	—	14 342	14 297	15 067	—	12 876	12 604	19 431	12 881				
Registered nurses	23 104	23 104	16 713	14 005	14 005	14 005	—	—	14 698	14 531	15 067	—	14 592	14 475	13 164	14 505				
Other health assessment and treating occupations	13 805	13 771	—	7 005	7 005	7 005	—	—	11 531	11 531	—	—	9 173	9 087	8 130	23 682				
Teachers, except postsecondary	15 980	16 149	14 005	12 221	12 221	12 221	—	—	8 942	8 744	12 603	9 423	14 322	14 003	16 012	23 682				
Social scientists and urban planners	17 106	17 106	—	14 505	14 505	14 505	—	—	8 280	8 280	18 005	9 115	16 184	16 281	16 160	16 901				
Social and recreation workers	49 319	49 319	—	27 630	10 005	33 505	—	—	8 280	8 280	18 005	9 115	16 184	16 281	16 160	16 901				
Lawyers and judges	13 953	14 084	15 184	11 139	11 884	7 883	3 689	—	17 062	16 397	25 465	7 480	23 073	23 691	18 879	26 841				
Writers, artists, entertainers, and athletes	13 739	13 991	18 005	9 667	9 667	9 667	—	—	13 952	14 019	8 228	21 325	12 229	12 246	12 856	13 048				
Other professional specialty occupations	12 940	12 940	10 532	9 787	9 763	10 168	8 518	—	9 133	9 212	8 635	7 697	11 327	11 155	12 360	10 776				
Technical, sales, and administrative support occupations	13 741	13 970	12 065	10 924	10 923	9 573	11 514	—	10 779	10 779	9 293	10 641	13 347	13 290	13 584	14 115				
Technicians and related support occupations	11 853	11 832	18 905	10 701	10 891	9 837	10 860	—	9 511	9 667	6 852	7 603	7 022	6 852	8 688	10 395				
Health technicians and technicians	11 807	11 832	18 905	10 701	10 891	9 837	10 860	—	9 511	9 667	6 852	7 603	7 022	6 852	8 688	10 395				
Licensed practical nurses	11 566	11 566	18 905	9 787	9 788	—	—	—	9 439	9 439	6 810	7 603	8 349	8 349	9 009	10 451				
Other health technicians and technicians	12 886	13 265	9 788	9 854	9 870	7 504	10 005	—	10 329	10 407	7 729	10 842	12 970	12 930	12 838	13 377				
Engineering and science technicians	12 822	12 973	15 005	13 011	14 705	7 504	10 005	—	10 329	10 407	7 729	10 842	12 970	12 930	12 838	13 377				
Electrical and electronic technicians	15 195	15 237	15 005	11 446	11 446	—	—	—	13 106	10 580	10 635	12 478	14 570	14 877	15 501	12 599				
Industrial and mechanical engineering technicians	12 393	12 792	9 500	9 540	9 056	8 591	10 222	—	13 106	10 580	10 635	12 478	14 570	14 877	15 501	12 599				
Drafting and surveying technicians	13 198	13 667	9 294	11 979	9 548	5 683	12 505	—	13 106	10 580	10 635	12 478	14 570	14 877	15 501	12 599				
Other engineering and science technicians	15 007	15 114	14 498	11 681	12 669	12 645	15 802	—	12 143	12 465	8 911	12 146	14 561	14 606	14 428	15 203				
Technicians, except health, engineering, and science	15 610	15 610	—	9 205	9 205	—	—	—	14 840	14 840	—	—	16 636	16 503	6 031	12 248				
Airplane pilots and navigators	18 400	18 400	—	13 855	13 625	—	—	—	13 572	13 794	10 865	8 670	15 455	15 557	14 843	14 225				
Air traffic controllers and broadcast equipment operators	15 634	15 618	16 620	11 445	11 445	—	—	—	11 058	11 058	7 938	12 613	15 369	15 369	16 402	16 580				
Computer programmers	12 938	12 938	11 438	9 667	9 667	—	—	—	11 058	11 058	7 938	12 613	15 369	15 369	16 402	16 580				
Other technicians, except health, engineering, and science	12 938	12 938	11 438	9 667	9 667	—	—	—	11 058	11 058	7 938	12 613	15 369	15 369	16 402	16 580				

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:

United States

Employed females 16 years and over—Con.

	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....	11 605	11 664	12 907	7 630	8 889	8 963	9 536	1 005	10 028	10 204	9 589	6 923	9 933	9 810	11 677	9 382
Supervisors and proprietors, sales occupations.....	14 974	14 430	17 181	—	14 874	14 924	—	—	10 177	10 433	8 136	8 845	15 966	16 026	16 484	15 488
Salaried.....	14 974	14 430	17 181	—	19 832	20 430	—	—	11 482	11 740	8 136	—1 415	16 408	16 517	16 484	19 983
Self-employed.....	23 467	23 467	14 005	—	—	—	16 281	—	5 077	12 238	—	7 298	9 816	9 709	12 680	9 015
Sales representatives, finance and business services.....	13 671	14 262	11 370	10 616	8 845	8 740	6 568	1 005	10 409	10 500	10 989	7 298	9 710	9 529	10 528	9 925
Sales representatives, commodities, except retail.....	8 977	8 619	9 370	5 126	6 097	6 351	6 568	1 005	6 781	7 273	5 549	3 009	9 856	9 560	10 359	9 925
Sales workers, retail and personal services.....	8 175	8 000	9 272	3 958	5 813	6 069	6 665	1 005	6 048	6 481	4 357	3 089	9 302	9 299	9 973	7 002
Cashiers.....	13 202	12 480	15 449	7 250	6 665	6 665	—	—	8 276	8 306	7 783	3 305	11 792	11 670	14 735	12 005
Other sales occupations, retail and personal services.....	3 505	—	—	—	—	—	—	—	5 935	5 935	—	—	—	—	—	—
Sales related occupations.....	11 902	12 042	10 866	10 430	9 748	9 726	10 211	8 379	8 929	9 003	8 508	7 427	11 402	11 233	12 364	10 786
Administrative support occupations, including clerical.....	16 762	16 988	13 324	10 765	12 703	13 669	13 980	15 745	12 465	12 625	11 663	9 550	17 259	17 303	17 066	16 246
Supervisors, administrative support occupations.....	11 899	12 185	11 324	8 483	10 932	10 790	12 024	8 470	10 063	10 046	10 868	9 893	11 667	11 607	12 803	11 503
Computer equipment operators.....	11 596	11 949	10 470	10 519	9 541	9 549	9 615	9 788	9 041	9 097	8 423	7 523	10 086	10 064	10 323	9 409
Secretaries, stenographers, and typists.....	11 853	11 949	10 470	10 519	9 825	9 866	9 583	9 895	9 278	9 346	8 385	7 929	10 200	10 165	10 626	9 275
Secretaries.....	10 346	10 386	9 426	9 578	8 643	8 439	9 583	10 792	9 781	9 781	5 498	6 999	9 685	9 644	9 441	9 315
Stenographers and typists.....	8 939	9 153	8 126	9 272	7 084	7 033	5 998	10 792	9 781	9 781	5 498	6 999	9 685	9 644	9 441	9 315
Receptionists.....	11 652	12 015	8 295	8 062	7 654	7 373	5 998	10 792	9 781	9 781	5 498	6 999	9 685	9 644	9 441	9 315
File clerks.....	10 137	10 332	8 295	8 062	7 654	7 373	5 998	10 792	9 781	9 781	5 498	6 999	9 685	9 644	9 441	9 315
Other records processing occupations, except financial.....	11 613	12 430	10 163	10 905	11 829	12 252	9 912	1 725	7 055	7 231	7 720	7 390	12 489	12 458	12 753	12 126
Bookkeepers, accounting, and auditing clerks.....	12 296	12 432	11 306	11 054	9 420	9 360	13 532	5 206	9 051	9 031	9 713	8 404	9 564	9 437	11 097	10 585
Payroll and timekeeping clerks.....	12 164	12 737	10 587	14 637	10 234	9 906	13 532	11 286	9 484	9 673	9 673	8 895	10 510	10 461	12 443	11 990
Other financial records processing occupations.....	11 776	11 375	13 378	8 757	9 629	9 305	10 470	11 286	8 756	8 814	8 398	7 949	10 270	10 181	12 443	10 258
Telephone operators.....	10 931	10 944	8 181	9 608	7 629	7 388	11 165	8 005	7 866	8 164	7 909	8 836	10 323	10 181	12 443	9 406
Mail and message distributing occupations.....	10 068	10 147	8 570	9 747	7 172	7 388	9 392	10 805	6 681	6 264	6 046	8 035	11 739	12 379	11 118	11 118
Production coordinators and expeditors.....	13 718	13 802	14 417	13 617	11 732	10 507	11 783	12 652	10 173	10 365	9 001	6 662	11 805	11 392	12 379	10 185
Traffic, shipping, and receiving clerks.....	10 892	11 039	12 557	9 981	10 625	10 357	12 358	7 988	8 723	8 893	9 001	7 779	11 285	11 333	10 966	10 461
Stock and inventory clerks.....	12 405	12 423	12 557	10 856	10 675	10 691	12 358	7 988	8 723	8 893	9 001	7 779	11 285	11 333	10 966	10 461
Other material recording, scheduling, and distributing clerks.....	13 483	13 680	13 763	11 391	9 319	9 295	10 691	11 505	10 778	10 854	10 277	7 488	12 398	12 081	12 701	11 396
Adjusters and inspectors.....	13 855	14 366	10 757	12 272	9 319	9 295	10 691	11 505	10 778	10 854	10 277	7 488	12 398	12 081	12 701	11 396
Adapters and investigators.....	11 369	11 393	10 293	10 272	9 319	9 295	10 691	11 505	10 778	10 854	10 277	7 488	12 398	12 081	12 701	11 396
Data-entry keyers.....	11 563	11 798	10 213	10 163	9 077	8 895	10 430	6 001	8 146	8 233	7 661	6 658	11 096	11 048	11 395	10 622
Other administrative support occupations.....	10 352	10 409	9 863	10 274	7 943	7 480	8 974	8 799	6 611	6 936	5 866	5 689	11 190	11 696	9 011	9 342
Service occupations.....	13 749	13 745	14 607	13 793	8 536	7 985	9 351	18 205	9 330	9 513	8 750	10 482	8 749	8 999	8 744	6 459
Private household occupations.....	12 998	12 930	13 843	13 793	8 906	8 284	9 351	18 205	9 477	9 520	9 409	10 482	8 602	8 713	8 707	6 239
Protective service occupations.....	17 449	17 367	18 005	17 993	6 813	6 813	—	—	8 024	9 440	4 444	—	13 249	13 591	10 029	15 005
Guards.....	9 607	9 555	5 572	9 488	7 865	7 389	8 961	5 977	6 352	6 675	5 623	5 562	11 316	11 829	7 454	9 492
Other protective service occupations.....	9 995	13 593	10 587	9 801	9 017	6 632	10 046	5 977	7 884	7 006	5 827	8 233	8 080	8 329	6 435	6 773
Food preparation and service occupations.....	10 865	10 896	10 587	9 801	9 017	6 632	10 046	5 977	7 884	7 006	5 827	8 233	8 080	8 329	6 435	6 773
Cleaning and building service occupations, except household.....	6 018	7 347	2 440	—	10 331	7 737	7 321	—	6 121	6 553	5 281	4 844	7 249	6 891	8 234	6 385
Personal service occupations.....	8 751	8 375	10 005	—	7 657	3 989	10 671	—	5 764	5 710	6 326	7 550	12 980	13 302	10 432	12 108
Farming, forestry, and fishing occupations.....	12 643	12 904	12 225	10 473	9 648	9 595	9 683	8 031	8 436	8 553	8 325	7 540	14 302	14 378	14 103	14 157
Precision production, craft, and repair occupations.....	12 851	12 682	14 255	9 930	8 930	9 002	7 880	7 520	8 824	8 943	8 118	9 419	15 061	15 227	14 502	14 967
Mechanics and repairers.....	17 257	17 257	—	20 005	9 675	9 330	—	12 005	10 879	10 879	9 591	—	18 166	18 105	17 520	20 394
Supervisors, mechanics and repairers.....	12 719	12 543	—	—	10 619	11 345	6 990	10 005	5 329	5 591	7 542	15 377	13 680	13 909	12 066	15 163
Automobile mechanics, including body.....	14 289	14 070	15 005	—	10 619	11 345	6 990	10 005	9 405	9 479	8 263	15 377	13 680	13 909	12 066	15 163
Industrial machinery repairers.....	10 691	10 316	11 738	14 045	9 305	9 422	8 005	5 005	9 279	8 816	8 164	11 249	12 143	12 110	12 410	10 807
Electronic repairers, communications and industrial equipment.....	21 172	21 172	—	—	8 280	8 396	7 050	5 992	8 627	8 773	8 056	7 324	13 820	13 162	20 505	14 797
Heating, air conditioning, and refrigeration mechanics.....	12 846	12 748	14 501	9 561	8 583	8 610	8 365	8 166	6 485	6 430	6 774	4 949	10 947	10 455	12 876	12 074
Other mechanics and repairers.....	12 576	12 727	12 863	12 115	6 205	6 205	—	—	9 628	11 031	9 315	5 005	16 003	17 390	13 908	11 588
Construction trades.....	13 554	13 623	24 005	14 401	7 327	7 556	6 561	8 936	8 117	8 514	7 380	6 579	10 972	13 371	13 717	11 993
Supervisors, construction occupations.....	13 569	13 634	24 005	14 401	7 327	7 556	6 561	8 936	8 117	8 514	7 380	6 579	10 972	13 371	13 717	11 993
Carpenters.....	13 803	13 803	—	—	9 011	9 011	—	—	5 125	5 125	5 149	4 802	10 133	10 469	10 044	9 938
Painters, construction and maintenance.....	11 010	11 017	—	—	8 311	8 311	—	—	16 403	16 403	16 401	13 297	7 210	7 275	7 275	15 098
Plumbers, pipefitters, and steamfitters.....	—	—	—	—	8 206	8 206	—	—	6 351	6 351	6 290	—	9 576	8 727	12 764	11 553
Other construction trades.....	—	—	—	—	8 542	8 542	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extrusion occupations	7 329	8 423	5 505	—	9 005	9 005	—	—	9 750	9 848	9 505	—	5 898	7 150	2 561	5 005
Precision production occupations	12 611	12 964	11 783	10 419	10 069	10 792	12 277	8 007	8 454	8 571	8 429	7 511	13 544	13 540	14 193	12 481
Supervisors, production occupations	16 715	16 994	14 673	15 085	14 529	14 061	15 261	12 522	10 673	11 018	10 740	8 996	15 836	15 890	16 156	13 521
Precision metalworking occupations	11 568	11 787	10 143	9 149	10 375	10 127	10 990	10 304	10 304	11 442	7 439	6 982	13 716	13 819	13 185	12 445
Tool and die makers	14 884	14 664	12 993	18 605	9 072	9 470	8 898	18 005	8 990	8 585	9 453	6 847	13 630	13 630	—	—
Mechanists	12 039	11 494	14 802	12 962	12 362	10 418	10 492	10 523	6 377	6 511	6 511	3 468	12 905	12 982	12 575	—
Sheet metal workers	11 942	11 196	9 174	9 075	9 611	9 536	4 145	5 518	5 927	5 815	7 944	3 468	12 517	14 517	—	—
Other precision metal workers	11 551	11 517	12 432	12 895	6 529	6 755	4 145	5 518	5 927	5 815	7 944	3 468	12 517	14 517	—	—
Precision textile, apparel, and furnishings machine workers	8 380	7 823	6 190	24 002	10 785	10 785	10 785	8 505	3 280	3 144	2 706	5 707	8 393	7 037	13 720	12 445
Precision food production occupations	13 616	13 878	12 981	12 523	10 201	10 746	10 785	8 505	3 280	3 144	2 706	5 707	8 393	7 037	13 720	12 445
Precision inspectors, testers, and related workers	14 667	14 846	11 005	12 523	11 907	11 907	10 785	8 505	3 280	3 144	2 706	5 707	8 393	7 037	13 720	12 445
Plant and system operators	11 114	11 321	11 642	9 476	8 153	8 017	12 005	8 681	10 740	10 878	6 605	7 247	10 816	10 929	10 140	11 537
Other precision production occupations	10 872	11 034	10 961	8 873	8 821	8 759	9 524	6 990	7 090	7 230	7 004	5 924	7 525	7 281	8 713	6 981
Operators, fabricators, and laborers	10 888	11 034	10 961	8 873	8 821	8 759	9 524	6 990	7 090	7 230	7 004	5 924	7 525	7 281	8 713	6 981
Machine operators, assemblers, and inspectors	10 760	11 004	10 734	8 996	9 022	8 889	9 945	7 663	7 163	7 175	6 852	5 443	9 956	10 215	9 677	8 336
Machine operators and helpers, except precision	10 884	11 008	11 087	9 926	8 696	8 696	13 009	7 281	9 425	7 522	7 404	5 928	9 235	9 438	8 528	7 450
Metalworking and processing machine operators	10 920	10 923	10 919	8 005	10 332	10 139	8 005	9 835	7 006	7 332	5 899	5 241	8 983	9 748	9 430	3 115
Metal and plastic processing and woodworking machine operators	10 420	10 572	10 928	7 433	7 680	7 650	7 731	3 917	7 530	7 325	7 850	7 427	8 782	9 200	5 519	6 576
Printing machine operators	11 583	13 111	6 288	11 671	6 913	7 276	5 519	5 851	8 278	8 551	6 921	6 990	8 881	12 031	8 778	8 778
Textile machine operators	9 428	10 545	12 055	7 005	7 396	7 941	5 674	6 821	5 512	5 553	5 764	4 597	8 282	6 398	14 449	1 885
Textile sewing machine operators	8 865	8 865	—	—	4 885	4 885	—	—	7 995	7 995	6 337	4 083	8 815	7 659	9 749	7 480
Laundry and dry cleaning machine operators	8 051	8 051	—	—	6 409	6 409	—	—	7 995	7 995	6 337	4 083	8 815	7 659	9 749	7 480
Packaging and filling machine operators	12 116	11 480	15 323	3 005	9 824	9 824	—	—	7 963	7 963	6 144	5 980	6 102	16 713	14 316	14 316
Furnace, kiln, and oven operators, except food	11 407	11 932	9 773	9 019	9 084	9 402	8 098	7 145	6 891	7 026	6 624	5 711	7 765	10 783	10 146	9 793
Other specified machine operators	10 533	10 705	11 099	7 537	8 844	8 601	10 029	9 064	7 100	7 328	6 931	5 710	10 272	10 646	9 608	7 793
Miscellaneous and not specified machine operators	10 589	10 689	10 557	9 041	9 016	8 892	9 784	6 958	7 006	7 089	7 082	6 095	9 364	9 642	8 931	8 388
Fabricators, assemblers, and hand working occupations	11 169	10 595	13 417	7 183	10 528	10 503	10 367	10 746	7 682	7 845	7 382	6 121	12 462	14 779	10 415	15 740
Welders and cutters	9 778	9 690	10 790	9 513	9 281	8 481	14 732	5 005	7 656	7 656	7 572	7 727	8 222	8 707	10 710	6 081
Soldiers and braziers	10 578	10 693	10 795	6 283	8 321	8 331	9 157	6 988	6 988	7 074	7 073	6 035	8 715	8 930	9 485	7 898
Assemblers	11 052	10 896	12 106	9 579	8 432	7 989	9 218	8 388	6 266	6 219	6 420	5 223	11 762	11 412	12 935	9 673
Hand working occupations	11 934	12 072	11 496	10 259	10 651	10 149	13 168	10 991	8 540	8 614	8 621	7 284	9 124	11 049	11 049	7 185
Production inspectors, testers, samplers, and weighers	7 647	7 989	6 571	3 755	7 783	15 485	6 005	—	6 531	5 776	9 762	6 286	5 003	4 748	8 318	3 838
Graders and sorters, except agricultural	12 006	12 137	11 848	10 376	10 712	10 123	13 531	10 991	8 616	8 712	8 567	7 354	11 246	11 256	11 777	12 762
Other production inspectors, testers, samplers, and weighers	11 763	12 513	8 845	7 998	9 386	9 276	10 007	12 835	8 130	8 387	7 278	6 519	7 017	6 762	8 530	6 724
Transportation and material moving occupations	10 886	10 384	14 063	10 005	6 354	4 946	13 070	9 005	7 386	7 334	7 143	12 093	6 949	6 487	8 530	6 595
Transportation occupations	10 766	10 342	15 036	10 005	6 073	4 572	13 070	9 005	7 386	7 334	7 143	12 093	6 949	6 487	8 530	6 595
Motor vehicle operators	9 628	9 412	12 505	10 005	8 202	6 701	13 070	—	7 347	7 267	7 102	12 580	9 898	9 892	10 160	7 840
Truck drivers	10 729	10 729	10 729	—	—	—	—	—	5 730	4 451	15 005	10 925	9 390	9 037	7 431	3 505
Other motor vehicle operators	13 872	13 017	17 005	—	980	980	—	—	7 319	4 451	15 005	10 925	9 390	9 037	7 431	3 505
Other motor vehicle operators	12 362	12 005	12 505	—	8 565	8 360	—	—	22 409	22 409	7 308	6 106	14 152	14 246	8 001	13 340
Rail and water transportation occupations	12 227	13 780	6 907	7 734	11 070	11 848	8 833	14 412	8 302	8 647	7 308	6 106	14 152	14 246	8 001	13 340
Material moving equipment operators	19 316	19 316	6 907	—	17 634	17 634	—	—	14 028	11 368	7 308	6 106	14 152	14 246	8 001	13 340
Supervisors, material moving equipment operators	9 005	9 005	—	—	12 158	11 923	—	—	4 090	5 503	2 205	—	12 280	10 907	16 728	10 422
Crane, hoist and winch operators	20 755	22 005	19 505	—	2 850	2 850	—	—	8 082	8 082	2 205	—	12 280	10 907	16 728	10 422
Excavating, grading, and dozer machine operators	11 205	12 832	5 725	7 734	10 012	10 958	7 061	8 732	8 268	8 082	7 411	6 106	10 696	10 529	8 964	14 171
Other material moving equipment operators	10 351	10 569	10 393	8 504	7 531	7 656	7 959	4 883	6 474	6 635	6 311	5 568	7 857	7 704	8 485	6 451
Handlers, equipment cleaners, helpers, and laborers	—	—	—	—	—	—	—	—	13 029	14 693	12 005	—	16 024	15 627	17 458	5 687
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	11 950	11 794	12 574	11 599	6 907	7 452	6 240	4 711	5 388	5 297	4 966	5 599	9 979	10 027	10 266	5 687
Helpers, craft and production	12 066	11 609	10 028	13 925	1 877	1 005	2 895	—	8 436	9 045	7 661	11 005	9 341	10 225	6 861	10 489
Construction laborers	10 025	11 250	10 028	7 905	6 396	7 855	2 080	6 485	7 557	7 660	7 319	7 467	8 723	8 169	10 111	6 950
Freight, stock, and material handlers	8 224	9 634	11 450	112	6 831	5 735	7 597	1 305	8 005	8 441	4 872	7 314	9 604	9 285	7 285	7 998
George and service station occupations, and equipment cleaners	10 396	10 606	9 562	7 831	6 991	7 652	8 850	3 626	6 479	6 643	6 336	5 423	5 600	5 712	5 466	4 984
Hand packers and packagers	10 112	10 125	10 145	9 400	8 047	7 788	8 800	6 218	6 215	6 372	6 106	5 515	7 596	7 711	7 338	7 061
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 2. Mean Earnings 1980—Con.

REPORTS
Polymers

	Total	White	Black	origin ¹	Total	White	Black	origin ¹	18 390	19 115	15 324	15 482	21 186	21 654	16 233	17 342
Employed under 16 years and over	19 943	20 577	15 273	16 444	17 451	18 214	13 354	14 324								
Managerial and professional specialty occupations	24 850	25 253	19 135	20 433	26 324	26 498	21 609	21 486	25 160	25 609	20 320	22 755	24 800	25 198	18 644	19 213
Technical, sales, and administrative support occupations	24 640	25 077	18 716	20 339	26 453	26 415	21 987	21 589	25 672	26 182	19 312	22 778	24 800	25 198	18 644	19 213
Engineers, architects, and managers occupations	20 005	20 005	35 005	20 904	25 725	25 725	30 005	32 005	22 463	22 817	19 312	22 778	32 005	32 005	22 778	23 791
Office and administrators, public administration	30 747	30 732	30 005	30 005	24 922	25 008	30 005	25 315	26 761	26 982	22 446	24 916	31 529	32 070	22 189	27 480
Financial managers	30 983	30 978	30 005	30 005	26 095	26 167	15 487	20 520	27 148	27 581	22 836	21 407	31 952	32 431	22 946	26 968
Managers, marketing, advertising, and public relations	27 735	27 735	—	—	23 245	23 245	—	—	31 659	33 473	19 281	21 005	26 907	30 461	14 930	11 005
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, insurance and health	28 061	27 988	28 972	22 163	23 027	23 132	23 982	13 807	22 859	22 985	21 461	20 853	30 415	31 037	24 318	20 891
Managers and administrators, n.e.c.	24 849	25 301	18 788	20 827	27 399	27 477	21 583	22 882	27 364	28 010	20 364	24 267	31 320	31 606	24 460	24 394
Managers and administrators, n.e.c.	24 849	25 301	18 788	20 827	27 399	27 477	21 583	22 882	27 364	28 010	20 364	24 267	31 320	31 606	24 460	24 394
Self-employed	—	—	—	—	26 608	26 804	19 929	30 057	20 213	20 135	28 946	18 727	26 971	26 948	30 005	—
Management related occupations	21 834	22 194	17 861	18 354	20 224	20 198	24 837	18 040	21 837	22 275	19 463	17 845	24 755	25 358	16 860	18 427
Accountants and auditors	22 080	22 304	18 963	18 804	19 467	19 640	14 155	19 588	19 920	20 446	15 356	17 666	24 688	25 484	18 240	18 243
Personnel, training, and labor relations specialists	22 844	25 135	17 274	22 320	22 687	22 181	31 957	19 610	23 590	24 039	22 169	17 725	24 688	26 945	19 330	23 973
Buyers and purchasing agents	18 500	23 428	12 985	17 521	18 902	19 024	12 943	16 582	20 167	20 360	17 891	17 452	20 703	21 520	15 736	23 500
Inspectors and compliance officers	—	—	—	—	18 516	18 516	—	—	23 249	23 960	18 590	17 826	20 269	20 269	25 005	21 535
Other management related occupations	24 116	24 403	19 325	11 005	19 637	19 809	17 820	11 605	24 761	24 782	21 773	21 252	27 066	27 526	18 931	—
Professional specialty occupations	25 833	26 059	21 884	21 429	22 822	23 195	16 677	18 083	23 330	23 581	20 489	22 641	20 418	20 664	16 469	16 861
Engineers, architects, and surveyors	25 108	25 300	21 696	20 220	24 146	24 322	21 062	20 203	26 023	26 394	20 997	28 983	23 744	23 870	23 185	22 554
Architects	25 187	27 187	21 696	20 793	26 927	27 869	21 062	8 255	24 752	26 331	17 204	27 954	23 746	23 968	23 185	25 421
Engineers	25 189	25 386	21 696	20 793	24 118	24 228	21 062	26 534	26 100	26 445	21 389	29 035	23 746	23 871	21 712	18 886
Electrical and electronic engineers	23 124	25 868	23 905	23 719	24 608	24 910	24 668	21 205	24 026	24 433	20 992	17 787	23 749	23 874	20 280	20 332
Industrial engineers	24 703	23 109	23 905	23 719	24 853	24 611	20 597	28 735	24 233	24 516	16 542	24 923	21 231	23 469	13 547	18 322
Mechanical engineers	27 506	28 805	16 572	30 675	24 386	24 291	20 597	20 597	23 746	24 569	16 475	15 431	24 487	24 074	21 183	40 288
Other engineers	23 162	23 397	19 904	18 312	22 689	23 986	20 771	—	23 746	27 304	24 967	30 730	24 099	24 074	25 740	20 828
Surveyors and mapping scientists	20 332	20 332	—	—	22 205	22 205	—	—	22 141	23 045	11 146	—	12 742	12 742	—	—
Computer systems analysts and scientists	23 282	23 594	19 338	20 976	22 098	22 270	22 005	21 455	24 133	24 110	26 009	25 077	24 642	24 666	22 730	22 314
Operations and systems researchers and analysts	23 888	23 553	18 205	23 945	21 943	21 338	30 005	—	23 434	23 071	26 074	19 777	25 730	26 220	18 508	24 066
Mathematical scientists	20 107	20 165	19 600	—	18 406	10 300	1 555	1 305	20 542	21 417	12 805	19 655	27 479	27 132	34 160	9 684
Natural scientists	22 842	22 842	—	—	18 496	16 748	1 555	1 305	25 051	23 538	—	—	26 754	26 701	16 805	—
Chemists, except biochemists	23 502	23 502	—	—	18 496	16 748	1 555	1 305	25 051	23 538	—	—	26 754	26 701	16 805	—
Other natural scientists	20 053	20 053	—	—	18 496	16 748	1 555	1 305	25 051	23 538	—	—	26 754	26 701	16 805	—
Health diagnosing occupations	28 672	31 487	16 005	—	23 256	26 668	17 707	—	31 889	31 889	13 180	12 703	48 736	48 736	—	9 684
Health assessment and treating occupations	22 005	22 005	—	—	14 741	11 716	5 805	—	12 461	12 461	42 005	—	33 199	33 199	—	—
Registered nurses	—	—	—	—	14 205	6 845	5 805	—	19 624	16 366	42 005	—	33 199	33 199	—	—
Other health assessment and treating occupations	—	—	—	—	17 741	13 009	23 308	—	12 255	12 344	8 813	12 703	18 672	18 672	—	—
Teachers, except postsecondary	22 063	22 164	19 655	—	19 179	19 179	—	12 005	18 529	18 424	20 777	14 389	22 110	22 270	23 855	23 548
Social scientists and urban planners	25 314	27 783	21 424	37 505	20 251	20 251	—	21 075	27 584	28 327	19 986	23 007	24 620	24 989	22 112	17 836
Social and welfare workers	34 073	34 073	—	—	14 723	14 173	16 005	—	21 418	21 418	21 984	23 546	23 546	23 546	35 365	35 365
Lawyers and judges	44 972	44 972	110 010	—	36 553	36 172	11 976	—	36 886	37 447	29 805	36 672	44 314	47 678	14 285	18 345
Writers, artists, entertainers, and athletes	22 239	22 543	18 198	20 538	19 383	19 383	10 779	25 005	19 941	20 441	16 976	16 713	17 095	17 309	18 346	18 346
Other professional specialty occupations	14 363	16 410	1 205	—	16 286	16 286	—	—	17 437	16 959	—	23 005	18 524	20 432	13 549	—
Technical, sales, and administrative support occupations	19 370	19 620	16 044	18 401	15 755	16 222	11 815	12 343	19 704	20 219	17 200	16 498	19 734	20 289	15 282	15 582
Technicians and related support occupations	22 224	20 124	15 689	16 116	16 246	16 413	11 298	12 575	33 507	34 119	20 116	23 049	19 899	19 899	18 210	17 786
Health technologists and technicians	34 005	34 005	—	—	11 631	11 441	—	—	9 717	9 642	21 490	8 802	21 562	21 562	—	—
Licensed practical nurses	21 243	21 243	—	—	12 351	12 351	—	—	18 053	17 550	10 825	8 802	21 562	21 562	—	—
Other health technologists and technicians	19 185	19 311	15 758	15 405	14 639	14 664	11 017	9 372	19 516	19 439	20 141	17 859	19 040	19 040	17 736	16 424
Engineering and science technicians	20 542	20 585	19 469	10 951	18 175	18 175	—	13 005	19 056	18 455	21 608	21 975	19 959	19 959	22 405	16 934
Industrial and mechanical engineering technicians	21 525	21 525	—	—	17 589	17 589	—	—	19 126	19 126	20 439	21 631	19 191	19 099	22 405	16 934
Drafting and surveying technicians	17 902	17 846	14 402	15 369	11 391	11 780	5 588	4 495	16 680	16 713	14 159	13 469	15 237	15 427	13 669	13 669
Other engineering and science technicians	19 517	19 957	13 274	18 814	13 957	13 376	16 445	11 823	17 888	17 965	18 655	10 454	20 319	20 497	21 108	18 533
Technicians, except health, engineering, and science	21 024	21 135	15 515	18 773	17 218	17 520	11 414	13 906	37 520	37 944	27 680	26 237	20 118	20 205	18 393	18 533
Airplane pilots and navigators	22 153	22 153	—	—	25 646	26 567	6 005	—	39 590	39 827	24 301	29 637	23 402	23 402	26 005	30 005
Air traffic controllers and broadcast equipment operators	20 139	20 195	21 935	19 576	16 902	15 534	14 246	12 735	22 322	22 396	21 468	19 564	18 051	18 235	16 516	13 743
Computer programmers	21 072	21 072	14 630	18 305	15 353	16 719	9 151	4 904	19 461	19 730	17 982	14 994	21 018	20 982	19 157	20 274

...of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race		Spanish origin ¹	Black	Race		Spanish origin ¹	Black	Race		Spanish origin ¹	Black	Race		Spanish origin ¹	Black
	Total	White			Total	White			Total	White			Total	White		
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	22 191	22 365	22 160	16 759	19 655	19 836	15 208	15 220	16 720	17 058	15 002	14 076	21 580	21 951	17 613	17 613
Supervisors and proprietors, sales occupations	26 933	26 024	—	12 605	22 706	23 037	13 797	17 021	24 937	23 594	17 429	17 652	24 320	24 408	20 814	20 814
Self-employed	26 933	26 024	—	12 605	22 706	23 037	13 797	17 021	24 937	23 594	17 429	17 652	24 320	24 408	20 814	20 814
Sales representatives, finance and business services	22 755	22 909	26 650	16 768	19 858	20 018	25 056	23 395	20 447	20 447	15 814	15 475	22 938	22 938	17 590	17 590
Sales representatives, commodities, except retail	26 525	26 525	—	—	22 706	23 037	13 797	17 021	24 937	23 594	17 429	17 652	24 320	24 408	20 814	20 814
Sales representatives, retail and personal services	18 627	18 627	17 222	19 984	15 199	12 047	16 388	12 221	13 243	13 243	12 296	13 406	14 522	15 345	11 076	11 076
Cashiers	18 123	18 123	17 222	19 984	15 199	12 047	16 388	12 221	13 243	13 243	12 296	13 406	14 522	15 345	11 076	11 076
Other sales occupations, retail and personal services	23 832	23 832	—	—	21 407	21 407	8 324	10 065	12 920	18 602	9 168	16 552	21 920	21 920	15 145	15 145
Sales related occupations																
Administrative support occupations, including clerical	19 150	19 404	18 424	16 028	14 698	15 129	11 638	12 011	17 999	18 190	16 478	17 268	19 273	20 056	14 037	14 559
Supervisors, administrative support occupations	22 325	22 370	20 277	21 469	18 798	19 046	15 875	14 505	21 677	21 892	20 491	20 772	25 274	25 344	20 712	22 510
Computer equipment operators	19 346	19 621	15 763	15 559	14 927	14 988	15 633	15 819	17 582	17 978	16 807	16 807	16 908	17 391	9 462	9 584
Secretaries, stenographers, and typists	18 429	18 926	16 050	14 930	14 845	16 420	3 502	7 850	17 059	16 824	13 101	16 154	11 734	12 565	5 843	6 431
Statisticians	17 136	17 149	19 365	11 583	11 583	11 583	11 583	9 999	14 110	14 110	14 110	14 110	14 110	14 110	14 110	14 110
Stenographers and typists	17 136	17 149	19 365	11 583	11 583	11 583	11 583	9 999	14 110	14 110	14 110	14 110	14 110	14 110	14 110	14 110
Receptionists	19 346	19 621	15 763	15 559	14 927	14 988	15 633	15 819	17 582	17 978	16 807	16 807	16 908	17 391	9 462	9 584
Other information clerks	19 346	19 621	15 763	15 559	14 927	14 988	15 633	15 819	17 582	17 978	16 807	16 807	16 908	17 391	9 462	9 584
File clerks	18 328	18 328	16 822	16 822	15 550	15 550	8 571	10 329	17 442	18 043	15 384	15 384	15 384	15 384	13 607	13 607
Other records processing occupations, except financial	18 256	18 714	18 714	16 759	12 450	12 450	8 571	10 329	17 442	18 043	15 384	15 384	15 384	15 384	13 607	13 607
Bookkeepers, accounting, and auditing clerks	19 324	19 490	18 709	16 759	13 804	13 933	6 358	15 708	14 793	15 089	11 909	14 361	17 193	18 354	11 860	12 026
Payroll and timekeeping clerks	18 776	18 920	19 431	15 361	15 361	15 361	15 361	12 323	19 860	20 134	16 903	19 581	13 690	13 313	14 605	16 005
Other financial records processing occupations	16 714	17 614	19 152	14 648	14 941	17 087	11 457	15 201	16 142	16 179	16 844	16 844	18 942	19 208	17 703	17 703
Telephone operators	17 833	17 833	17 393	14 842	11 392	11 668	11 668	10 396	12 673	17 791	16 979	17 241	10 919	11 778	9 854	10 854
Mail and message distributing occupations	17 363	17 363	20 147	16 904	16 121	16 612	11 816	15 091	19 300	19 337	17 866	17 866	16 866	16 866	11 278	11 278
Production coordinators and expeditors	18 344	18 344	20 147	16 904	16 121	16 612	11 816	15 091	19 300	19 337	17 866	17 866	16 866	16 866	11 278	11 278
Traffic, shipping, and receiving clerks	17 198	17 198	17 447	15 339	11 213	11 213	9 318	9 515	17 098	17 098	16 292	16 292	15 492	15 492	12 401	12 401
Stock and inventory clerks	20 951	21 180	18 944	17 264	17 458	17 660	9 318	9 515	17 098	17 098	16 292	16 292	15 492	15 492	12 401	12 401
Other material recording, scheduling, and distributing clerks	19 751	20 018	18 853	17 447	17 348	17 461	15 688	12 517	18 795	19 016	14 882	14 882	19 324	19 324	14 478	14 478
Adjusters and investigators	19 116	19 244	22 289	16 645	16 645	16 645	16 645	12 517	18 795	19 016	14 882	14 882	19 324	19 324	14 478	14 478
Data-entry keyers	18 423	18 612	18 050	15 704	14 068	14 228	12 077	11 597	16 594	17 030	12 034	12 034	14 919	15 763	11 545	11 545
Other administrative support occupations																
Service occupations	15 727	17 052	13 019	16 745	10 920	11 306	9 322	9 675	13 670	14 221	12 384	12 384	12 964	14 386	8 895	11 063
Private household occupations	18 863	19 108	16 650	16 745	11 390	11 558	10 372	10 572	15 598	16 090	14 329	14 329	13 005	14 490	9 302	12 224
Protective service occupations	20 241	20 014	16 559	16 559	10 533	10 675	9 666	9 880	15 311	15 768	14 492	14 492	12 847	13 121	9 206	11 037
Other protective service occupations	13 492	14 526	12 430	19 252	10 501	10 675	9 666	9 880	15 311	15 768	14 492	14 492	12 847	13 121	9 206	11 037
Service occupations, except protective and household	13 492	14 526	12 430	19 252	10 501	10 675	9 666	9 880	15 311	15 768	14 492	14 492	12 847	13 121	9 206	11 037
Health service occupations	19 676	23 451	13 805	13 805	13 356	14 459	7 161	5 503	9 754	9 729	10 203	10 456	12 401	12 401	10 466	10 466
Cleaning and building service occupations, except household	13 092	13 632	12 448	13 805	10 488	10 807	9 414	9 554	13 145	13 623	12 140	12 140	11 809	12 140	10 049	10 049
Personal service occupations	14 877	18 031	11 781	12 471	14 700	16 287	3 917	4 834	14 018	14 826	12 199	12 199	15 646	16 163	8 710	12 827
Farming, forestry, and fishing occupations	13 489	14 413	8 705	16 745	8 363	9 346	5 526	5 886	10 916	11 466	8 356	8 356	10 768	10 530	7 209	23 510
Precision production, craft, and repair occupations	18 495	18 791	15 572	16 745	16 991	17 285	13 929	14 390	19 066	19 348	17 416	17 416	20 153	20 379	17 478	18 455
Mechanics and repairers	22 611	22 811	19 840	16 559	16 314	16 537	13 762	15 326	18 804	19 059	17 416	17 416	20 153	20 379	17 478	18 455
Supervisors, mechanics and repairers	17 785	17 715	17 399	16 559	15 675	15 789	14 488	16 319	19 320	24 105	23 555	23 555	25 391	25 538	22 434	22 434
Automobile mechanics, including body	17 631	17 802	15 050	16 617	16 759	16 645	16 645	19 007	18 361	18 705	18 268	18 268	18 432	18 758	13 638	15 326
Industrial machinery repairers	21 393	21 646	18 086	16 456	16 456	17 116	2 945	15 005	20 827	20 813	20 445	20 445	13 591	13 747	11 535	10 961
Electronic mechanics, communications and industrial equipment	18 218	17 782	16 693	16 250	16 250	16 353	15 839	16 316	20 827	20 382	18 158	18 158	20 260	20 478	16 567	16 291
Heating, air conditioning, and refrigeration mechanics	17 515	18 870	14 698	16 456	16 456	17 116	2 945	15 005	20 827	20 813	20 445	20 445	13 591	13 747	11 535	10 961
Other mechanics and repairers	18 541	18 834	15 367	17 309	13 595	13 956	11 025	9 507	23 259	23 552	20 554	20 554	20 193	20 560	16 001	18 941
Construction trades	23 482	23 290	28 296	16 159	10 585	10 824	7 507	9 507	23 259	23 552	20 554	20 554	20 193	20 560	16 001	18 941
Supervisors, construction occupations	16 076	16 227	14 975	16 159	10 585	10 824	7 507	9 507	23 259	23 552	20 554	20 554	20 193	20 560	16 001	18 941
Carpenters	18 970	19 217	15 760	16 159	10 964	11 371	10 271	9 651	17 159	17 177	16 166	16 166	18 879	19 280	17 785	19 731
Electricians	18 225	18 405	13 069	16 004	16 318	16 388	11 869	13 754	17 241	17 625	15 475	15 475	16 039	16 176	14 326	14 326
Painters, construction and maintenance	18 440	18 913	14 923	16 116	12 256	12 256	11 869	13 754	17 241	17 625	15 475	15 475	16 039	16 176	14 326	14 326
Painters, paperhangers, and steamfitters																

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over—Con.

	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	18 978	19 725	10 971	21 625	15 845	15 833	—	14 713	19 491	20 491	17 271	10 532	19 068	18 515	29 005	5 595
Precision production occupations	18 893	19 094	16 608	17 942	18 520	18 660	14 389	14 766	21 030	21 429	18 048	18 649	23 078	23 317	19 271	22 651
Supervisors, production occupations	21 982	22 241	16 932	19 232	19 016	19 430	11 848	15 555	21 782	22 171	18 897	17 438	24 291	24 426	20 065	24 061
Precision metalworking occupations	18 153	18 318	16 279	18 024	14 363	14 777	13 564	13 001	19 202	19 655	15 799	17 534	18 551	19 339	13 957	15 176
Tool and die makers	18 881	18 079	18 005	8 505	17 485	17 405	—	—	22 133	22 054	—	—	20 068	20 068	—	—
Mechanics	18 075	18 275	15 728	17 936	14 417	15 104	12 431	13 001	19 451	19 996	15 797	18 092	17 679	18 549	13 349	14 438
Sheet metal workers	19 057	18 918	21 873	19 854	13 037	9 832	17 845	17 992	19 395	19 556	17 233	17 864	16 998	16 998	—	—
Other precision metal workers	17 899	18 027	17 744	15 622	13 850	13 284	19 695	—	15 347	15 856	14 959	11 590	16 609	20 930	15 818	16 505
Precision textile, apparel, and furnishings machine workers	12 251	12 747	9 405	—	24 293	28 163	8 135	2 305	13 004	14 160	7 281	10 172	19 287	28 782	—	—
Precision food production occupations	18 903	19 043	17 512	17 536	15 089	15 870	10 293	8 973	22 442	22 639	18 881	10 773	21 304	21 304	21 418	28 060
Precision inspectors, testers, and related workers	19 973	20 851	14 962	16 280	15 089	15 870	9 998	—	22 223	21 311	19 918	21 411	23 072	23 081	20 898	18 483
Plant and system operators	16 261	15 542	22 683	18 805	16 579	16 490	—	10 405	15 483	15 254	40 005	15 345	14 864	16 099	8 943	—
Other precision production occupations																
Operators, fabricators, and laborers	19 994	20 732	14 975	15 897	17 138	17 697	13 329	14 298	14 294	14 644	13 593	13 116	14 781	15 580	12 213	12 313
Machine operators, assemblers, and inspectors	16 788	17 196	14 304	16 012	13 852	14 654	11 030	10 392	15 836	16 507	13 549	12 912	15 412	16 202	12 537	12 537
Machine operators and leaders, except precision	16 055	16 540	13 604	15 428	12 505	13 806	9 317	9 382	17 737	18 472	13 766	11 454	14 571	15 363	11 421	14 161
Handworking and plastic working machine operators	15 840	16 131	12 820	15 681	15 495	15 495	10 905	12 483	17 937	18 471	14 112	17 654	15 319	16 494	8 905	13 216
Fabricating machine operators, n.e.c.	13 436	13 492	13 005	—	13 456	17 354	12 898	10 005	21 284	28 695	18 471	14 605	11 917	9 560	18 105	—
Metal and plastic processing and woodworking machine operators	14 791	14 791	—	11 880	9 588	10 309	7 270	11 205	15 499	17 529	8 454	18 955	12 258	16 676	14 743	12 365
Printing machine operators	16 106	17 204	9 353	—	12 937	12 715	11 723	11 454	13 857	13 301	17 649	9 771	12 694	12 712	12 561	21 325
Textile machine operators	15 434	16 928	13 005	—	10 632	13 614	7 614	4 895	17 320	18 696	18 755	—	15 567	15 567	—	—
Textile sewing machine operators	35 356	35 356	—	—	5 091	5 823	4 390	4 005	14 314	13 084	15 194	—	13 734	13 734	—	—
Laundry and dry cleaning machine operators	22 136	22 174	—	22 005	8 508	8 508	—	—	14 770	15 362	—	10 005	—	20 676	—	—
Packaging and filling machine operators	28 095	18 880	29 005	17 225	16 244	16 223	14 545	18 687	13 992	14 003	9 349	9 005	21 696	21 548	24 310	16 972
Furnace, kiln, and oven operators, except food	15 970	16 198	12 710	17 012	10 915	13 100	6 340	29 505	13 755	13 757	13 407	10 614	14 209	15 161	8 770	13 485
Other specified machine operators	15 998	16 536	13 599	15 251	12 409	14 091	7 076	7 951	15 120	16 063	13 623	10 873	14 756	15 652	11 138	—
Miscellaneous and not specified machine operators																
Fabricators, assemblers, and hand working occupations	15 972	16 312	14 107	15 474	13 451	13 484	14 890	10 307	15 733	16 519	11 871	14 650	17 723	14 467	13 319	11 138
Welders and cutters	14 085	16 354	14 610	15 306	14 483	14 292	19 502	9 605	16 503	17 493	11 000	15 353	15 044	14 874	18 438	17 005
Solders and brazers	14 005	19 005	10 005	—	13 855	13 855	—	9 605	12 005	12 005	—	—	15 004	15 211	12 255	18 005
Assemblers	15 254	16 389	12 232	20 653	11 535	11 689	11 925	7 647	13 720	13 995	12 894	12 808	13 315	14 354	12 713	10 498
Hand working occupations	14 816	15 304	13 040	12 033	10 679	12 801	4 892	5 503	14 502	14 437	14 766	14 766	14 048	14 048	—	—
Production inspectors, testers, samplers, and weighers	19 363	19 570	17 008	19 437	16 536	17 133	12 999	13 776	18 713	19 022	16 543	14 583	18 239	18 527	15 576	13 107
Graders and sorters, except agricultural	15 503	15 503	—	2 105	9 812	9 318	12 581	9 257	13 699	12 501	14 391	17 306	13 155	16 627	6 905	—
Other production inspectors, testers, samplers, and weighers	19 382	19 592	17 008	19 524	18 521	19 314	13 149	16 589	19 011	19 293	16 863	14 394	18 353	18 557	16 670	13 107
Transportation and material moving occupations																
Transportation occupations	22 216	22 629	17 657	18 739	18 231	18 709	14 476	15 820	13 868	14 148	13 365	12 568	15 839	16 655	12 398	12 961
Motor vehicle operators	22 399	22 807	17 753	19 006	18 367	18 829	14 628	16 087	13 543	13 777	13 189	12 152	16 176	17 186	12 136	14 313
Truck drivers	16 779	17 226	15 321	14 599	18 366	18 828	14 628	16 086	12 440	12 341	12 942	11 690	14 667	15 490	12 136	14 313
Driver-sales workers	16 805	17 207	15 519	14 589	18 339	18 800	14 601	16 100	12 821	12 341	15 128	11 888	14 383	15 377	11 068	14 533
Other motor vehicle operators	16 485	16 766	14 477	—	17 285	17 599	14 436	14 322	12 016	13 858	8 169	8 849	9 928	8 969	16 005	11 005
Rail and water transportation occupations	16 595	17 564	14 033	14 710	20 136	20 693	16 243	15 751	11 996	11 800	12 710	11 454	16 872	17 029	17 145	24 568
Metrol moving equipment operators	22 632	22 999	18 018	19 881	19 049	19 509	14 353	16 909	18 586	19 080	15 847	15 178	21 217	22 000	13 542	9 783
Supervisors, material moving equipment operators	21 615	22 999	18 018	17 287	13 844	14 388	11 606	11 367	18 865	20 793	16 489	17 980	14 816	15 110	13 329	10 498
Crane, hoist, and winch operators	19 044	21 712	20 155	19 672	15 279	16 078	10 957	11 051	25 050	26 793	16 489	26 407	21 826	22 516	16 943	—
Excavating, grading, and dozer machine operators	18 375	18 447	18 734	15 724	17 845	18 186	13 589	19 220	21 539	22 182	19 143	22 091	13 818	17 476	11 411	—
Other material moving equipment operators	16 104	16 151	16 071	20 276	12 007	22 210	17 636	5 168	16 067	16 266	13 064	15 502	12 033	12 174	11 411	—
Handers, equipment cleaners, helpers, and laborers	16 462	17 141	12 745	15 276	13 401	13 887	11 461	11 348	17 004	17 980	15 204	15 994	15 008	15 102	14 442	9 783
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	13 692	14 401	11 586	13 200	11 588	12 040	9 667	9 977	15 511	16 144	14 294	14 697	13 350	14 181	8 637	11 502
Helpers, craft and production	25 483	25 483	—	15 555	9 992	16 610	11 853	—	22 059	22 410	20 199	20 874	30 812	30 812	—	—
Construction laborers	14 038	13 769	13 775	12 206	9 949	9 949	11 094	10 113	11 545	11 594	11 594	8 743	13 158	13 024	14 203	9 562
Freight, stock, and material handlers	14 275	16 088	9 165	13 535	11 782	11 851	9 647	4 004	13 615	14 728	15 244	9 486	12 931	19 716	9 861	12 199
Garage and service station occupations, and equipment cleaners	13 070	13 913	11 579	12 887	11 018	10 961	11 897	10 045	11 376	11 475	11 213	10 164	9 894	11 244	4 274	13 615
Hand packers and packagers	13 199	12 876	17 505	13 815	8 743	10 373	8 403	8 376	11 381	12 266	8 749	8 092	11 320	12 517	9 298	11 844
Laborers, except construction	13 636	14 314	11 674	13 231	11 017	11 369	9 544	10 316	12 321	12 772	11 506	11 655	11 514	12 051	7 925	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Railroads			Trucking service and warehousing			Other transportation			Communications		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
Employed females 16 years and over												
Managerial and professional specialty occupations	14 768	15 090	12 815	13 220	9 143	9 216	8 474	7 432	11 046	10 726	12 789	10 346
Executive, administrative, and managerial occupations	17 820	18 048	15 859	14 355	13 073	13 091	12 367	9 907	14 195	14 085	16 769	13 072
Officials and administrators, public administration	18 000	18 284	15 384	16 141	13 001	13 002	12 819	9 846	14 144	14 085	16 769	13 072
Financial managers	15 431	17 258	11 026	10 026	14 075	13 494	17 786	13 005	15 194	15 007	16 480	12 095
Managers, marketing, advertising, and public relations	16 224	16 224	15 540	13 540	13 540	13 540	13 540	5 002	16 009	16 009	25 370	12 888
Administrators, education and related fields	—	—	—	—	5 770	5 770	—	—	10 517	10 504	9 265	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	16 932	16 100	14 955	13 611	13 227	13 227	16 176	11 821	14 015	13 914	20 308	10 798
Managers and administrators, n.e.c.	18 564	18 824	15 350	19 395	13 249	13 289	12 133	10 416	13 988	13 902	16 535	12 453
Skilled	18 564	18 824	15 350	19 395	13 457	13 500	12 120	10 533	14 342	14 263	16 585	12 890
Self-employed	—	—	—	—	11 598	11 659	12 505	5 338	9 764	9 818	14 432	10 325
Management related occupations	17 620	17 918	16 334	19 005	12 135	12 090	11 970	8 194	14 350	14 382	14 489	13 472
Accountants and auditors	17 105	17 341	16 109	19 005	11 730	11 764	12 628	7 698	13 057	13 126	12 890	13 472
Personnel, training, and labor relations specialists	20 039	18 510	26 465	—	15 831	15 190	22 434	—	17 033	16 974	17 273	14 731
Buyers and purchasing agents	20 039	20 352	20 655	—	10 296	9 600	14 755	14 005	15 045	14 854	15 378	13 123
Inspectors and compliance officers	15 977	15 977	15 977	—	11 763	11 763	9 376	—	15 040	14 994	15 291	12 022
Other management related occupations	16 533	18 471	3 305	—	12 609	12 920	—	—	14 493	14 528	13 143	18 608
Professional specialty occupations	17 145	17 188	17 408	10 783	14 388	14 877	9 059	12 305	14 593	14 183	19 635	16 445
Engineers, architects, and surveyors	16 895	16 489	28 005	—	15 158	16 285	10 326	—	15 898	15 633	19 716	—
Architects	23 805	23 805	23 805	—	15 005	15 005	—	—	15 305	15 305	—	—
Engineers	16 371	15 984	28 005	—	15 160	16 303	10 326	—	15 950	15 637	20 591	—
Civil engineers	16 371	16 815	—	—	—	—	—	—	20 867	19 967	23 005	—
Electrical and electronic engineers	18 915	18 915	—	—	22 353	22 353	—	—	18 914	24 205	20 288	—
Industrial engineers	18 915	18 915	—	—	14 165	14 757	11 822	—	15 978	15 188	20 288	—
Mechanical engineers	12 325	12 325	—	—	14 545	14 545	—	—	18 438	18 253	16 005	—
Other engineers	16 501	16 501	—	—	11 773	12 425	6 005	—	13 082	13 364	16 005	—
Surveyors and mapping scientists	16 914	16 914	—	—	—	—	—	—	13 005	—	—	—
Computer systems analysts and scientists	18 939	19 144	17 128	—	20 280	20 280	—	—	19 708	19 939	18 723	9 151
Operations and systems researchers and analysts	15 486	15 486	14 005	—	14 822	14 210	—	—	18 944	18 440	21 019	16 291
Mathematical scientists	17 038	17 038	—	12 005	9 935	10 908	8 213	—	25 548	17 356	72 956	12 780
Natural scientists	19 005	19 005	1 005	—	9 885	9 885	9 885	—	14 309	13 658	17 529	—
Chemists, except biochemists	19 005	19 005	—	—	9 885	9 885	—	—	19 705	19 137	22 955	—
Other natural scientists	1 005	—	1 005	—	—	—	—	—	9 413	8 677	13 730	—
Health diagnosing occupations	—	—	—	—	9 885	9 885	—	—	23 488	23 488	16 442	—
Health assessment and treating occupations	15 325	15 325	—	—	16 398	17 865	2 405	—	11 655	11 147	16 442	15 526
Registered nurses	15 325	15 325	—	—	16 398	17 865	2 405	—	13 885	13 343	17 559	15 798
Other health assessment and treating occupations	—	—	—	—	16 398	17 865	2 405	—	9 276	9 189	8 130	14 505
Teachers, except postsecondary	25 595	25 595	24 645	—	11 319	11 319	—	—	13 898	13 206	17 032	20 885
Social scientists and urban planners	18 225	18 225	—	—	12 801	12 801	—	—	15 784	15 603	18 030	16 472
Social and recreation workers	27 101	27 101	—	—	6 599	6 599	—	—	8 671	7 863	13 130	8 177
Lawyers and judges	20 849	20 849	—	—	27 303	27 303	—	—	21 695	21 666	19 463	33 847
Writers, artists, entertainers, and athletes	11 592	11 452	—	—	11 747	11 850	—	—	12 111	12 160	11 468	13 062
Other professional specialty occupations	11 337	11 923	—	10 005	12 606	12 606	—	—	13 217	12 722	18 486	17 505
Technical, sales, and administrative support occupations	14 755	14 942	13 425	13 914	8 919	8 911	9 148	7 986	11 385	10 865	13 962	10 796
Technicians and related support occupations	15 728	16 484	14 365	—	11 917	12 154	9 919	11 446	11 144	10 868	12 119	11 942
Health technicians and technicians	20 755	20 755	—	—	5 360	5 360	—	—	6 276	6 098	9 555	8 048
Librarians and archivists	21 005	21 005	—	—	5 360	5 360	—	—	4 943	5 142	1 705	8 405
Other health technicians and technicians	—	—	—	—	—	—	—	—	6 349	6 150	10 202	8 031
Engineering and science technicians	12 685	15 130	8 955	—	11 115	12 432	5 591	15 195	13 854	13 452	14 675	15 015
Electrical and electronic technicians	13 624	21 228	—	—	6 900	7 835	5 862	—	13 085	13 388	14 303	15 015
Industrial and mechanical engineering technicians	16 785	16 785	—	—	6 938	6 938	—	—	8 984	8 984	14 675	19 185
Drafting and surveying technicians	11 617	13 769	8 955	—	6 938	6 938	—	—	11 653	11 490	6 816	9 305
Other engineering and science technicians	13 375	13 375	—	—	13 100	14 231	5 275	15 195	16 435	15 716	18 192	20 217
Technicians, except health, engineering, and science	16 489	16 682	19 516	—	12 359	12 393	12 366	8 947	14 176	14 421	11 546	12 013
Airplane pilots and navigators	18 275	18 275	—	—	12 067	12 067	—	—	16 582	16 446	6 031	12 248
Air traffic controllers and broadcast equipment operators	16 432	16 812	18 801	—	12 418	12 189	—	—	8 371	9 379	3 534	10 553
Computer programmers	16 229	16 229	21 305	—	12 260	12 973	9 723	4 365	15 553	15 713	13 935	12 879
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	13 275	12 915	16 312	7 888

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:

1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Employed females 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Sales occupations
Sales supervisors and proprietors, sales occupations
Sales representatives, finance and business services
Sales representatives, commodities, except retail
Sales workers, retail and personal services
Sales clerks
Other sales occupations, retail and personal services
Sales related occupations

Administrative support occupations, including clerical
Supervisors, administrative support occupations
Computer equipment operators
Secretaries, stenographers, and typists
Secretaries
Stenographers and typists
Receptionists
Other information clerks
File clerks
Other records processing occupations, except financial
Bookkeepers, accounting, and auditing clerks
Payroll and timekeeping clerks
Other financial records processing occupations
Telephone operators
Mail and message distributing occupations
Production coordinators and expeditors
Traffic, shipping, and receiving clerks
Stock and inventory clerks
Stock clerks
Other material recording, scheduling, and distributing clerks
Adjusters and investigators
Data-entry keyers
Other administrative support occupations

Service occupations
Private household occupations
Protective service occupations
Guards
Other protective service occupations
Service occupations, except protective and household
Food preparation and service occupation
Health service occupations
Cleaning and building service occupations, except household
Personal service occupations

Farming, forestry, and fishing occupations

Precision production, craft, and repair occupations
Mechanics and repairers
Supervisors, mechanics and repairers
Automobile mechanics, including body
Industrial machinery repairers
Electronic repairers, communications and industrial equipment
Heating, air conditioning, and refrigeration mechanics
Other mechanics and repairers

Construction trades
Supervisors, construction occupations
Carpenters
Electricians
Painters, construction and maintenance
Plumbers, pipefitters, and steamfitters
Other construction trades

Persons of Spanish origin may be of any race.

	Railroads			Trucking service and warehousing			Other transportation			Communications		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
14 360	15 061	11 472	—	10 752	10 835	9 570	8 522	8 376	8 389	13 485	13 572	11 980
12 005	12 005	—	—	9 957	10 342	5 150	14 350	14 603	16 557	20 386	20 207	26 545
12 005	12 005	—	—	10 045	10 501	5 150	14 862	15 194	16 557	20 350	20 689	26 545
15 344	16 038	12 733	—	9 385	9 385	6 545	8 463	8 463	7 598	14 989	14 989	12 992
13 262	14 018	10 274	—	11 379	11 387	10 810	14 615	14 615	10 554	18 204	18 204	9 004
13 242	14 255	8 314	—	12 508	12 521	12 460	9 899	9 346	10 913	9 805	10 156	7 093
13 386	12 057	15 441	—	5 358	5 450	4 471	9 745	9 064	6 782	8 720	8 528	7 093
—	—	—	—	—	—	—	12 467	12 467	—	13 528	13 528	—
14 745	14 916	13 457	13 914	8 834	8 821	9 124	11 989	11 476	11 166	11 887	11 929	11 338
18 441	18 524	15 978	26 534	12 749	12 607	14 220	15 252	14 924	15 732	18 585	18 729	17 640
15 033	15 126	14 806	14 283	10 195	10 006	11 757	11 792	11 708	10 921	12 625	12 466	12 301
14 460	14 569	13 425	12 908	8 470	8 470	8 722	10 066	10 066	9 159	10 423	10 423	10 584
14 748	14 902	13 032	13 487	8 324	8 324	8 822	10 265	10 265	9 030	10 611	10 583	9 906
13 970	13 995	13 991	12 096	7 898	7 822	8 835	9 122	8 785	9 030	9 964	9 964	9 906
9 978	9 857	10 757	—	7 062	7 212	6 687	7 794	7 477	7 296	7 071	7 066	6 247
13 786	14 113	12 531	11 332	7 302	7 302	7 928	12 753	12 812	11 113	11 541	11 492	10 472
14 821	15 678	9 775	9 325	6 272	6 494	4 553	8 030	7 794	9 055	10 534	10 812	9 314
14 296	14 615	13 009	9 238	8 486	8 486	7 529	11 205	10 978	13 037	12 729	12 981	12 729
15 219	15 434	14 196	8 556	8 279	8 263	8 786	9 337	9 128	10 178	10 756	10 609	13 760
16 356	16 606	14 705	17 720	10 727	10 778	9 537	13 412	12 567	12 840	12 933	12 840	13 148
16 023	16 113	14 743	17 037	7 236	7 236	8 630	10 404	10 321	11 525	11 699	11 550	11 598
13 718	13 664	14 399	18 003	7 084	7 084	8 283	8 545	8 346	10 973	10 298	10 351	9 398
14 205	14 725	9 800	20 405	7 697	7 697	8 885	13 247	12 339	10 524	9 972	9 322	8 939
16 093	16 199	14 622	18 010	8 377	8 377	9 954	11 894	11 407	8 741	11 712	11 682	10 607
15 185	15 371	14 145	14 231	8 377	8 377	7 744	12 880	12 950	13 028	10 394	10 151	10 407
13 538	13 373	13 859	21 140	9 537	9 537	7 444	11 421	11 335	13 028	13 312	13 398	13 077
15 458	15 369	13 092	11 116	10 946	10 946	11 223	7 766	7 490	11 664	12 755	12 838	13 229
14 706	14 569	13 092	11 116	9 048	9 048	11 223	12 935	12 679	11 987	12 894	12 932	13 345
14 014	13 867	14 205	14 014	9 819	9 819	10 499	11 224	11 193	10 536	10 160	10 197	11 010
14 577	14 814	12 798	14 100	8 997	8 954	9 851	9 919	9 626	9 430	11 972	11 884	11 653
10 291	10 595	10 210	7 440	5 511	5 559	5 135	11 956	12 392	10 144	8 688	8 741	7 278
14 557	15 663	11 537	17 155	6 707	6 790	10 975	8 288	8 231	5 898	9 938	10 423	15 005
14 961	16 364	11 537	17 155	6 716	6 802	10 975	8 140	8 040	5 898	9 517	9 867	15 005
9 733	9 733	—	—	6 245	6 245	—	13 872	14 268	10 366	15 196	16 367	15 005
9 718	9 718	—	—	5 344	5 328	4 969	12 077	12 509	10 366	8 565	8 565	8 372
9 054	9 453	10 066	6 888	4 183	4 183	2 901	6 202	6 202	6 949	9 326	9 422	5 309
479	482	—	479	17 292	5 935	—	6 036	5 997	3 108	14 900	16 302	7 630
9 758	9 318	9 998	9 128	5 562	5 150	6 126	7 211	5 630	7 128	7 924	7 879	6 863
10 886	10 815	11 180	10 688	5 503	6 264	2 838	13 096	13 408	12 235	10 348	9 244	9 955
—	—	—	—	10 702	14 329	6 760	9 317	9 164	—	5 481	7 710	3 645
15 229	15 210	15 193	19 829	14 067	10 487	11 869	12 951	13 011	12 121	15 367	15 508	15 377
16 130	15 798	17 404	20 518	14 067	14 294	12 713	12 035	12 230	13 923	15 346	15 511	15 225
21 888	22 402	—	33 905	9 905	9 905	—	13 786	12 535	14 130	19 503	19 549	18 693
20 005	20 005	—	—	3 005	3 005	—	12 585	12 729	20 805	15 990	16 000	15 005
14 007	14 007	—	—	9 024	10 835	6 005	16 740	15 385	18 005	15 696	15 491	15 005
15 283	14 541	—	15 883	14 719	13 924	14 200	16 263	15 308	18 005	10 578	10 885	10 029
13 614	13 812	12 206	—	9 427	9 687	6 005	11 439	11 979	12 864	15 340	15 147	15 209
17 725	17 725	—	—	21 005	21 005	—	13 414	13 260	8 645	11 061	9 955	18 753
13 296	16 501	11 694	—	21 005	21 005	—	14 225	13 612	12 005	19 256	19 746	16 492
13 925	13 990	13 229	—	21 245	21 245	—	8 074	6 312	12 005	14 134	14 134	15 730
17 723	17 723	—	—	7 561	7 561	—	17 487	10 594	805	15 213	15 082	15 218
14 448	14 448	—	—	6 961	7 166	—	8 883	11 320	—	12 806	17 477	—
14 881	14 881	—	—	—	—	6 005	13 505	13 505	—	543	548	—
—	—	—	—	—	—	—	15 675	16 090	—	13 604	10 254	21 664

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction production occupations	14 911	15 607	10 051	15 005	8 005	8 005	—	5 005	1 565	1 565	—	—	6 014	7 805	1 535	—
Precision production occupations	15 544	15 634	14 115	—	10 264	10 162	—	10 412	13 777	13 724	14 020	—	16 491	16 962	16 499	15 995
Supervisors, production occupations	16 205	15 894	20 555	—	12 650	12 756	11 844	10 053	15 007	14 929	15 450	—	18 632	19 032	17 605	17 074
Precision metalworking occupations	18 005	17 740	20 555	—	5 005	5 005	—	—	15 250	15 240	15 305	—	11 956	12 514	9 458	—
Tool and die makers	18 005	17 740	20 555	—	5 005	5 005	—	—	14 517	14 112	15 305	—	19 790	19 790	—	—
Mechanists	11 254	11 254	—	—	—	7 205	—	—	16 872	16 872	—	—	8 979	8 973	9 005	—
Sheet metal workers	18 005	18 005	—	—	2 005	2 005	—	—	15 011	15 011	—	—	11 675	12 205	9 618	—
Precision textile, apparel, and furnishings machine workers	16 369	15 005	—	—	4 333	3 289	—	—	10 744	8 415	13 891	—	12 012	12 012	—	—
Precision food production occupations	8 255	8 255	—	—	5 186	5 065	—	—	9 465	9 465	—	—	8 330	8 330	—	—
Precision inspectors, testers, and related workers	15 156	22 575	1 005	15 005	7 721	7 721	—	—	11 583	11 855	11 158	—	13 857	13 653	16 081	11 472
Plant and system operators	4 725	4 725	—	—	23 438	23 438	—	—	9 466	9 359	9 010	—	14 141	14 141	—	17 048
Other precision production occupations	13 709	14 403	10 793	11 125	8 312	8 568	7 095	6 397	6 208	5 524	8 974	6 357	11 228	11 390	10 718	11 293
Operators, fabricators, and laborers	12 600	13 697	9 577	13 272	6 090	6 331	5 536	6 635	10 142	9 495	11 805	11 005	11 102	11 248	10 822	10 769
Machine operators, assemblers, and inspectors	11 924	13 033	9 086	14 864	6 001	6 511	5 040	6 250	10 752	10 014	12 422	7 959	11 649	11 957	10 835	11 463
Supervisors, machine operators, and inspectors	12 641	10 860	—	16 005	6 110	6 110	—	2 135	6 700	5 130	10 121	1 005	13 155	13 155	10 005	—
Metalworking and plastic working machine operators	7 305	7 305	—	—	6 227	6 097	—	3 115	8 489	8 489	—	—	11 843	13 498	10 005	—
Fabricating machine operators, n.e.c.	16 030	—	—	—	7 478	7 478	—	—	8 194	8 194	—	4 661	13 278	13 621	—	—
Metal and plastic processing and woodworking machine operators	5 392	—	—	—	5 793	5 769	6 005	4 175	9 919	8 698	14 946	—	11 215	10 656	14 416	8 477
Printing machine operators	15 718	15 718	—	—	8 781	6 505	—	839	13 100	9 505	14 350	—	7 745	10 798	5 201	6 765
Textile sewing machine operators	15 718	15 718	—	—	6 990	6 990	—	—	6 532	6 532	8 017	6 505	11 695	11 460	11 763	—
Laundry and dry cleaning machine operators	6 686	7 279	3 365	—	4 086	4 977	503	7 805	6 491	4 330	4 070	—	9 613	8 601	13 805	—
Furnace, kiln, and oven operators, except food	12 343	13 966	9 300	14 131	5 636	6 480	5 207	2 700	8 363	7 025	11 151	7 930	12 370	12 333	12 083	9 429
Other specified machine operators	12 613	13 567	10 429	9 943	6 927	6 372	7 482	8 112	9 255	9 603	9 634	8 421	12 370	12 083	12 145	—
Miscellaneous and not specified machine operators	13 160	15 119	10 273	9 776	11 181	11 783	3 290	18 475	14 466	15 893	12 005	7 387	9 671	9 810	9 417	9 386
Fabricators, assemblers, and hand working occupations	13 016	13 191	11 965	10 235	6 341	5 705	7 971	6 886	8 413	9 174	7 458	6 792	8 908	10 711	6 792	6 505
Welders and others	9 258	9 258	—	—	7 852	7 593	8 810	4 505	14 019	9 464	19 837	7 135	8 151	8 752	6 223	9 489
Solders and brazers	14 690	15 347	8 845	—	5 891	6 163	5 446	6 196	7 908	6 596	12 162	2 005	13 354	15 029	10 672	—
Assemblers	16 281	16 281	—	—	4 287	4 288	5 198	3 796	8 942	5 724	18 394	2 005	12 131	11 929	12 978	12 372
Hand working occupations	14 492	15 216	8 845	—	9 897	10 456	6 299	17 672	7 391	6 969	8 673	—	12 146	11 970	16 005	16 005
Production inspectors, testers, samplers, and weighers	15 609	15 605	15 378	11 979	9 976	10 046	9 535	7 895	5 658	5 140	8 129	6 107	12 418	12 459	12 180	13 376
Other production inspectors, testers, samplers, and weighers	16 429	16 477	15 861	12 645	10 039	10 077	9 927	7 798	5 633	5 116	8 115	6 106	11 387	11 447	11 447	13 376
Transportation occupations	10 194	9 493	14 495	—	10 043	10 081	10 380	7 881	5 552	5 042	8 038	5 837	11 480	11 592	10 989	12 385
Motor vehicle operators	11 555	13 755	13 755	—	10 230	10 248	—	—	7 092	7 084	8 882	7 590	11 587	11 829	10 525	10 668
Truck drivers	13 755	13 755	—	—	10 053	10 248	—	—	7 092	4 778	1 475	3 505	11 412	11 702	11 005	—
Driver-sales workers	16 877	16 963	16 004	12 645	7 443	7 927	7 100	6 646	9 911	4 988	8 010	5 709	10 560	10 706	18 005	19 005
Other motor vehicle operators	9 112	9 325	1 429	—	4 000	4 000	—	—	9 911	9 733	11 208	6 263	13 631	10 396	11 874	14 538
Rail and water transportation occupations	18 051	18 051	—	—	8 379	9 034	6 716	9 057	10 037	9 549	10 193	6 263	22 242	22 242	25 005	—
Material moving equipment operators	16 045	16 045	—	—	15 672	15 672	—	—	17 878	17 878	—	—	16 838	13 697	—	—
Supervisors, material moving equipment operators	15 566	15 574	1 429	—	8 935	8 935	—	—	8 857	8 090	11 274	6 263	15 045	15 308	14 452	14 538
Crane, hoist, and winch operators	15 961	15 961	—	—	8 184	8 794	—	—	9 057	8 556	11 495	6 731	11 115	11 339	9 875	12 186
Excavating, grading, and dozer machine operators	10 465	11 215	8 790	10 435	6 058	6 226	5 530	5 178	9 519	8 556	11 495	6 731	20 171	20 171	14 070	—
Other material moving equipment operators	9 367	10 187	5 932	—	12 492	12 492	—	—	15 228	14 076	17 658	—	12 783	12 783	14 070	15 415
Handlers, equipment cleaners, helpers, and laborers	3 769	4 188	—	12 467	7 589	7 589	—	8 205	8 194	3 553	4 952	—	12 783	12 783	14 070	15 415
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	13 723	12 975	18 005	7 205	6 271	6 514	4 500	4 922	11 757	10 710	12 858	8 994	12 571	13 083	9 334	9 700
Helpers, craft and production	11 945	15 344	6 635	13 645	6 117	5 379	10 974	9 505	9 812	9 280	11 117	7 299	11 426	11 915	9 552	14 135
Construction laborers	8 272	4 005	12 005	10 134	5 203	5 314	4 874	5 708	6 544	6 544	8 420	5 178	10 636	10 636	9 275	12 326
Freight, stock, and material handlers	10 347	11 044	8 842	—	6 684	6 772	6 669	—	6 246	5 532	8 617	—	10 636	10 636	9 275	12 326
Garage and service station occupations, and equipment cleaners	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hand packers and packagers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Total	Race		Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
		White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	17 701	18 481	12 250	13 622	18 440	19 127	11 175	12 370	16 390	17 093	11 010	11 871	11 947	12 378	8 186	9 138
Managerial and professional specialty occupations	24 266	24 541	17 890	20 279	28 513	28 892	17 365	20 823	25 054	25 408	14 976	18 911	19 829	20 293	13 053	15 228
Executive, administrative, and managerial occupations	25 323	25 689	17 007	19 214	28 988	29 346	17 247	21 195	25 205	25 558	15 014	19 094	20 044	20 532	13 016	15 132
Officials and administrators, public administration	17 205	17 205	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	27 883	28 053	19 138	23 974	26 319	26 061	18 184	21 196	23 862	24 191	15 422	18 073	23 556	19 695	13 666	21 666
Managers, marketing, advertising, and public relations	28 491	28 486	—	31 969	35 959	30 173	25 072	23 373	25 862	25 867	24 992	20 109	23 942	22 201	15 450	17 501
Administrators, education and related fields	19 967	20 140	18 380	—	—	—	—	1 855	36 458	36 458	—	—	23 300	23 641	15 821	46 407
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	24 750	25 019	19 548	18 527	25 277	25 419	21 265	17 975	23 709	24 278	19 714	14 771	20 403	20 996	14 590	14 350
Managers and administrators, n.e.c.	27 408	27 731	17 860	20 029	31 300	31 735	16 706	22 149	28 030	28 422	15 866	19 737	20 242	20 242	12 578	14 818
Self-employed	27 532	27 835	18 057	20 077	32 153	32 153	16 888	22 360	28 238	28 624	16 001	19 815	20 200	20 777	12 478	14 642
Salaries	22 715	23 466	16 104	12 893	25 727	25 769	14 130	19 694	24 962	25 431	10 173	19 205	17 494	17 741	12 492	15 543
Management related occupations	20 895	21 234	15 894	17 441	20 602	20 898	13 997	17 137	20 005	20 360	10 193	18 063	19 115	19 470	13 693	14 758
Accountants and auditors	20 655	20 871	16 779	17 574	20 268	20 623	15 448	18 226	19 411	19 746	12 228	22 265	19 411	18 372	12 357	14 085
Personnel, training, and labor relations specialists	23 436	23 724	19 036	19 935	22 083	22 570	18 138	16 206	19 885	20 327	15 002	14 283	18 143	18 745	12 555	12 937
Buyers and purchasing agents	20 028	20 144	18 154	16 305	19 908	20 134	11 765	16 932	19 963	20 327	9 259	17 384	19 510	18 644	14 771	15 940
Inspectors and compliance officers	16 593	17 055	12 841	14 893	15 100	15 273	10 538	11 453	12 477	12 477	—	—	14 511	15 955	5 713	5 713
Other management related occupations	23 746	24 478	11 285	14 469	27 143	27 836	13 103	17 235	25 553	25 837	18 005	—	22 135	22 472	17 631	20 693
Professional specialty occupations	23 068	23 200	18 938	21 345	23 597	24 000	17 927	17 707	21 653	21 996	14 292	15 839	18 486	18 809	13 291	15 953
Engineers, architects, and surveyors	23 047	23 367	18 686	21 555	24 214	24 392	16 556	18 793	22 621	22 724	22 715	15 760	21 260	21 479	15 519	19 938
Architects	23 041	23 013	22 005	28 815	20 797	20 683	—	—	18 737	18 737	—	—	23 472	24 092	22 063	22 063
Engineers	23 322	23 445	18 740	21 601	24 065	24 452	16 556	18 793	22 783	22 864	22 715	15 760	20 813	20 959	16 371	18 979
Civil engineers	21 699	21 698	15 294	20 459	23 501	23 110	27 681	22 859	18 319	17 674	27 505	17 745	20 663	21 059	4 795	26 005
Electrical and electronic engineers	23 687	23 811	19 324	21 299	24 059	24 718	17 690	21 179	21 419	21 006	23 125	17 305	19 318	19 233	22 481	16 911
Industrial engineers	23 022	23 040	20 207	21 299	22 849	23 012	24 109	16 734	20 839	20 839	25 005	—	20 719	20 799	13 612	20 613
Mechanical engineers	23 127	23 515	17 348	21 649	23 177	23 694	12 146	16 013	24 587	24 578	7 595	15 226	21 061	22 003	13 763	13 005
Other engineers	23 535	23 654	17 851	24 649	24 609	24 980	15 800	18 535	24 351	24 772	—	—	20 729	22 003	21 341	19 775
Surveyors and mapping scientists	17 125	17 178	12 727	10 641	7 770	7 770	—	—	—	—	—	—	17 325	17 325	—	—
Computer systems analysts and scientists	22 780	22 921	18 796	23 238	22 840	23 050	20 154	21 634	20 442	20 308	23 370	20 576	22 195	22 426	19 624	19 171
Operations and systems researchers and analysts	22 163	22 166	22 552	20 198	23 703	24 149	20 256	19 825	21 816	22 024	—	—	20 974	20 907	18 358	18 495
Mathematical scientists	20 737	20 787	14 665	17 829	19 856	19 985	17 358	12 945	12 366	11 359	13 135	32 005	16 690	19 901	17 402	15 811
Natural scientists	19 688	19 759	19 954	16 446	21 148	22 964	18 901	15 290	16 888	17 774	9 480	—	18 400	17 074	17 402	15 811
Chemists, except biochemists	18 961	18 795	22 664	16 446	21 148	22 964	18 901	15 290	16 888	17 774	9 480	—	17 400	17 074	17 402	15 811
Other natural scientists	20 322	20 525	13 072	18 521	23 466	23 939	13 005	15 929	16 937	16 940	16 297	32 005	17 404	18 022	30 495	18 465
Health diagnosing occupations	34 126	39 138	25 005	—	—	—	—	—	29 200	27 200	—	—	21 459	22 026	18 913	19 921
Health assessment and treating occupations	18 481	19 094	—	—	—	—	—	—	21 764	23 812	1 285	—	21 613	20 737	3 205	19 921
Registered nurses	20 497	19 853	—	—	—	—	—	—	18 250	18 250	—	—	20 379	20 757	3 205	19 921
Other health assessment and treating occupations	16 842	16 842	—	—	—	—	—	—	23 238	26 490	1 285	—	21 619	21 772	18 947	19 921
Teachers, except postsecondary	20 532	20 547	20 341	18 592	21 507	22 205	11 747	10 759	16 225	16 225	—	—	8 241	8 336	6 893	9 984
Social scientists and urban planners	22 564	22 705	17 246	9 538	28 871	29 194	23 838	23 852	25 292	25 383	—	—	26 539	26 801	21 472	14 597
Social and recreation workers	20 176	21 075	2 405	29 195	23 264	24 625	3 455	23 362	11 991	13 543	3 455	13 005	11 576	7 206	7 005	7 005
Lawyers and judges	37 229	37 316	—	27 885	48 175	48 029	47 957	43 213	46 015	46 015	—	—	41 394	42 386	25 779	28 928
Writers, artists, entertainers, and athletes	22 184	22 225	19 440	22 756	18 403	18 685	15 501	13 851	16 477	16 776	12 426	15 326	12 329	12 667	8 968	14 019
Other professional specialty occupations	18 931	19 113	15 005	21 165	20 149	20 679	1 848	14 205	30 415	30 415	—	—	17 315	17 731	13 976	7 875
Technical, sales, and administrative support occupations	16 645	17 078	12 987	13 644	19 241	19 657	12 259	13 338	17 473	17 878	11 551	13 158	13 360	13 701	9 304	10 365
Technicians and related support occupations	17 614	17 852	14 619	15 435	16 523	16 803	13 853	13 788	15 434	15 758	10 392	12 998	14 847	14 994	12 554	12 599
Health technicians and technicians	13 171	14 548	8 895	8 547	18 661	19 417	7 155	11 875	13 634	14 917	7 505	—	15 748	16 099	13 230	11 012
Licensed practical nurses	12 503	11 994	13 215	8 547	9 482	8 307	—	18 005	7 791	7 791	—	—	23 379	23 379	13 230	11 012
Other health technicians and technicians	13 183	14 584	8 758	8 547	19 852	20 794	7 155	9 098	17 919	22 382	7 505	—	15 405	15 728	13 230	11 012
Engineering and science technicians	17 438	17 627	14 980	14 938	15 366	15 680	12 562	13 098	13 399	13 557	9 023	12 363	13 645	13 819	12 269	12 100
Electrical and electronic technicians	19 719	19 735	19 704	16 431	15 542	15 730	14 334	14 939	16 634	16 522	12 005	12 783	14 082	14 174	13 131	11 905
Mechanical and electrical engineering technicians	19 874	20 301	13 809	24 187	14 437	18 338	12 018	10 180	13 308	17 255	—	10 405	8 804	9 149	1 831	12 450
Drafting and surveying technicians	15 846	15 988	13 902	14 157	14 434	14 831	10 073	12 694	14 949	15 811	8 505	18 005	13 160	12 329	12 197	10 966
Other engineering and science technicians	17 318	17 549	14 218	15 521	15 669	16 089	11 779	10 909	12 493	12 564	8 652	11 717	14 281	17 731	13 976	13 980
Technicians, except health, engineering, and science	18 561	18 727	16 998	17 713	17 648	17 876	15 476	14 650	16 819	17 266	11 378	13 472	15 599	15 711	13 475	13 191
Airplane pilots and navigators	27 358	27 508	—	—	22 542	22 913	—	20 005	18 339	19 661	1 556	20 005	21 266	21 410	7 205	24 553
Air traffic controllers and broadcast equipment operators	17 171	17 170	17 596	18 841	16 569	16 819	16 883	2 405	18 829	18 829	12 239	14 459	10 782	10 802	7 411	13 338
Computer programmers	18 166	18 201	16 768	18 777	16 362	16 632	15 746	15 529	16 086	16 423	—	—	16 385	16 385	15 804	15 841
Other technicians, except health, engineering, and science	18 572	18 824	16 412	18 777	16 740	16 923	15 431	14 170	18 602	19 018	1 565	8 605	16 464	16 477	11 830	11 065

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	19 239	19 493	14 440	15 163	21 110	21 354	13 951	15 291	18 911	19 165	12 341	14 352	13 897	14 215	9 584	10 718
Supervisors and proprietors, sales occupations	21 976	22 071	10 655	23 259	24 905	25 224	15 246	18 539	23 301	23 698	13 102	14 827	18 110	18 370	13 182	14 757
Salaries	22 417	22 417	10 655	23 259	26 324	26 640	15 246	18 539	24 336	24 953	13 102	14 827	18 110	18 370	13 182	14 757
Self-employed	19 200	19 442	15 115	14 727	20 995	21 261	13 052	15 639	20 094	20 737	9 313	14 005	16 899	17 049	12 924	14 410
Sales representatives, finance and business services	24 308	24 308	12 430	9 800	20 957	21 190	14 158	15 639	18 425	18 737	12 800	14 823	24 210	24 244	14 354	14 941
Sales representatives, commodities, except retail	12 496	12 654	12 366	6 091	14 082	14 276	8 104	12 476	15 621	15 770	7 906	8 923	11 408	11 703	8 221	8 920
Sales workers, retail and personal services	11 891	12 052	12 052	6 091	14 082	14 276	8 104	12 476	15 621	15 770	7 906	8 923	11 408	11 703	8 221	8 920
Cashiers	13 815	13 770	12 680	14 970	14 476	14 559	12 843	11 921	16 991	17 447	11 116	12 116	12 126	12 472	8 967	9 625
Other sales occupations, retail and personal services	18 086	18 783	12 005	14 970	19 373	19 635	12 843	11 921	16 991	17 447	11 116	12 116	12 126	12 472	8 967	9 625
Sales related occupations	16 002	16 493	12 573	13 051	12 635	12 965	10 495	10 297	13 075	13 419	11 041	11 419	9 498	9 702	8 321	8 536
Administrative support occupations, including clerical	21 356	21 723	16 478	17 459	18 342	18 342	13 852	14 393	17 152	17 508	13 803	13 244	15 653	15 995	13 056	13 221
Supervisors, general occupations	15 869	16 336	12 565	13 834	14 213	14 562	12 419	11 913	12 761	13 149	8 663	13 209	13 026	13 199	12 431	12 405
Secretaries, stenographers, and typists	16 737	17 669	9 614	12 069	18 926	19 693	7 744	11 454	16 674	17 428	8 561	5 005	12 953	13 611	8 281	11 254
Secretaries	19 461	19 920	6 713	14 005	22 238	22 238	7 722	15 045	19 033	19 175	8 561	5 005	12 953	13 611	8 281	11 254
Stenographers and typists	11 384	11 789	10 785	11 619	7 904	8 167	7 756	5 805	8 294	8 659	8 561	5 005	7 301	7 388	7 942	9 260
Receptionists	17 596	17 498	14 734	15 613	9 609	9 609	16 699	15 180	7 765	7 765	—	11 165	7 301	7 388	7 942	9 260
Other information clerks	15 574	15 730	13 239	6 783	12 791	13 041	9 394	8 100	7 765	7 765	—	11 165	7 301	7 388	7 942	9 260
File clerks	11 557	11 454	13 012	6 783	9 434	9 624	8 474	8 100	12 696	12 696	17 355	6 076	6 082	6 370	5 885	3 793
Other records processing occupations, except financial	18 124	18 416	15 389	14 996	11 701	11 933	10 330	10 331	12 634	13 071	10 516	11 785	9 642	9 835	8 292	8 985
Bookkeepers, accounting, and auditing clerks	16 507	16 776	13 551	14 672	12 850	12 857	14 594	10 594	13 559	13 720	9 239	10 962	10 450	10 541	9 187	8 512
Payroll and timekeeping clerks	15 985	16 277	13 146	15 704	13 158	13 426	11 640	17 810	12 869	13 779	8 732	10 728	10 673	11 131	7 718	10 951
Other financial records processing occupations	15 947	16 623	11 837	14 054	13 178	13 566	9 065	11 811	12 529	12 690	11 060	10 962	10 059	10 406	8 228	9 682
Telephone operators	17 447	17 805	14 645	10 695	18 114	18 114	6 184	3 203	8 733	8 459	9 774	5 694	5 774	5 584	5 284	7 272
Mail and message distributing occupations	11 176	11 704	9 750	10 177	8 669	8 731	7 326	8 911	9 273	9 273	8 911	9 263	8 107	9 967	5 773	7 773
Production coordinators and expeditors	18 434	18 758	15 000	14 441	14 582	14 855	12 009	12 586	12 008	12 104	9 127	10 143	10 050	10 143	8 660	9 777
Traffic, shipping, and receiving clerks	13 900	14 288	12 409	13 209	10 419	10 552	10 316	9 308	12 923	13 344	11 538	10 963	10 143	10 143	8 660	9 777
Stock and inventory clerks	15 968	16 268	13 628	13 818	10 278	10 526	8 711	8 225	13 880	13 274	13 467	12 571	12 571	12 571	8 083	9 808
Other material recording, scheduling, and distributing clerks	13 254	13 628	11 311	11 462	14 409	14 727	12 472	11 565	13 900	13 406	13 406	12 571	12 571	12 571	8 083	9 808
Adjusters and investigators	18 051	18 260	16 682	14 341	15 927	16 049	12 960	14 778	13 420	13 318	11 300	13 572	12 181	12 415	8 412	9 849
Date-entry keyers	14 552	15 042	12 735	17 624	15 139	15 778	12 064	14 708	13 461	13 318	13 318	13 572	10 361	10 730	8 357	8 492
Other administrative support occupations	16 245	16 757	11 750	13 461	12 725	12 948	11 012	9 581	11 961	11 949	13 969	11 310	8 994	9 197	7 676	7 764
Service occupations	12 604	13 238	10 262	9 777	10 083	10 675	7 771	9 176	10 229	10 952	7 432	9 690	5 342	5 260	5 073	5 943
Private household occupations	13 118	13 420	11 875	11 643	10 468	10 788	8 439	8 441	9 344	9 551	8 030	7 563	8 459	8 829	8 108	8 654
Protective service occupations	12 379	12 400	11 538	11 544	9 808	10 068	8 362	8 386	8 687	8 850	7 514	7 563	8 098	8 157	7 941	8 075
Guards	20 707	21 132	16 991	17 005	17 553	17 931	13 637	12 145	19 931	19 639	24 995	16 111	16 771	16 771	11 981	17 288
Other protective service occupations	12 475	13 189	9 934	9 557	10 013	10 653	7 664	9 269	10 345	11 157	7 384	9 908	5 269	5 182	4 967	5 909
Food preparation and service occupations	12 587	12 775	12 101	8 055	11 504	12 939	6 683	9 817	11 319	12 751	6 803	10 622	5 179	5 094	4 688	5 863
Health service occupations	13 282	13 030	13 109	8 055	9 600	11 593	5 529	9 420	8 090	8 657	6 390	245	7 949	8 020	4 380	7 148
Cleaning and building service occupations, except household	12 452	13 162	9 906	9 600	9 718	10 258	7 721	9 247	9 927	10 561	7 554	9 705	5 830	5 749	5 579	6 269
Personal service occupations	14 014	15 528	6 517	8 200	13 324	14 002	12 486	8 733	15 856	16 458	8 010	11 614	6 843	6 943	6 558	6 056
Farming, forestry, and fishing occupations	11 386	11 630	9 803	10 388	9 001	9 354	6 049	8 124	8 415	8 667	4 707	9 984	7 452	7 700	6 164	5 776
Precision production, craft, and repair occupations	18 746	19 112	14 926	15 335	15 247	15 526	12 359	12 801	15 417	15 870	12 347	12 995	13 310	13 503	10 463	11 609
Mechanics and repairers	22 652	22 830	17 766	18 225	18 672	18 797	12 450	19 398	18 493	19 343	12 484	14 072	12 743	12 743	10 386	11 346
Supervisors, mechanics and repairers	16 500	16 787	14 477	14 745	16 674	16 972	10 993	11 086	14 752	14 840	13 115	13 146	17 410	17 410	13 886	14 626
Automobile mechanics, including body	17 600	17 773	16 588	13 102	14 721	14 824	13 471	12 951	14 709	14 751	13 576	15 141	12 455	12 592	10 351	11 351
Industrial machinery repairers	19 453	19 712	15 131	18 003	13 095	13 062	13 185	10 306	15 935	16 431	13 277	7 405	11 663	11 757	9 988	10 672
Electronic repairers, communications and industrial equipment	17 200	17 219	16 737	19 828	13 888	14 045	10 140	11 558	14 262	14 142	11 005	12 742	14 896	15 029	13 243	11 283
Heating, air conditioning, and refrigeration mechanics	16 961	17 294	14 134	14 186	14 253	14 363	12 572	12 538	14 863	15 163	11 711	14 277	11 597	11 667	10 340	10 962
Other mechanics and repairers	18 917	19 356	14 707	15 258	13 856	14 131	10 584	12 206	13 661	13 908	10 976	10 908	12 511	12 403	10 237	10 795
Construction trades	22 519	22 872	16 745	17 740	19 796	20 243	10 583	19 252	19 866	19 919	17 165	17 390	18 840	19 451	10 317	13 420
Supervisors, construction occupations	15 778	16 232	12 647	15 822	11 929	12 267	8 314	10 270	11 651	11 783	7 058	8 905	11 526	11 718	8 383	9 759
Carpenters	18 315	18 612	15 390	14 822	14 944	15 139	12 340	13 387	14 567	14 626	13 898	14 070	14 273	14 447	12 794	11 264
Electricians	15 781	16 020	15 174	14 945	10 951	10 951	10 748	9 832	10 783	11 422	8 031	11 346	10 068	10 266	8 708	9 460
Painters, construction and maintenance	16 456	17 248	11 783	13 241	14 687	14 768	11 699	13 990	15 049	15 049	17 105	14 355	12 529	12 677	10 676	11 051
Plumbers, pipefitters, and steamfitters	19 357	19 695	15 729	16 133	12 908	13 159	10 893	12 064	11 691	11 913	14 701	7 359	12 529	12 677	10 676	11 051
Other construction trades																

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over—Con.

	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race		Spanish origin ¹	Total	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	17 340	17 036	17 200	17 741	17 293	17 698	7 274	10 285	14 265	15 363	8 405	14 199	16 443	5 721	16 791	
Precision production occupations	17 187	17 095	17 324	16 021	17 042	17 635	12 909	13 345	15 632	16 192	12 392	14 624	18 941	11 149	12 113	
Supervisors, production occupations	21 899	22 145	17 747	17 582	18 620	19 119	14 355	14 132	17 481	17 742	14 758	14 321	18 083	12 951	13 714	
Precision manufacturing occupations	17 372	17 794	16 769	17 450	18 932	14 209	11 694	12 821	14 552	13 445	14 799	12 311	12 526	10 815	6 925	
Food and kind makers	17 735	17 574	15 443	16 005	18 372	16 619	14 875	12 504	15 013	13 372	17 065	14 527	13 863	16 854	6 425	
Machinists	17 263	19 897	15 443	16 436	18 576	13 977	12 995	10 779	14 194	14 131	12 611	12 213	12 300	11 409	11 240	
Sheet metal workers	18 904	18 930	18 513	18 147	13 957	14 102	12 995	12 810	18 267	18 267	14 169	12 621	13 219	9 359	12 201	
Other precision metal workers	18 660	18 736	17 191	18 774	12 539	14 484	8 920	13 344	10 341	11 234	5 608	12 265	10 565	9 837	11 508	
Precision textile, apparel, and furnishings machine workers	15 014	22 093	9 525	11 471	12 539	14 184	6 822	21 509	10 341	11 234	5 608	12 265	10 565	9 837	11 508	
Precision food production occupations	15 437	16 852	7 725	11 045	12 446	14 070	10 994	12 040	13 531	14 155	11 087	13 981	14 225	10 843	9 949	
Precision inspectors, testers, and related workers	18 64	18 514	14 148	15 485	15 317	15 466	14 994	9 078	21 923	21 923	13 926	13 926	13 926	13 926	12 019	
Plant and system operators	18 270	18 513	13 641	14 489	19 249	19 780	13 743	24 947	17 997	18 619	7 951	16 273	16 662	11 452	14 198	
Other precision production occupations	18 749	18 836	17 472	13 767	11 560	11 941	8 030	9 364	10 716	12 263	2 236	13 240	13 395	9 294	12 346	
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	13 297	14 255	10 453	11 296	11 945	12 368	10 040	9 880	13 048	13 561	10 665	7 473	7 458	7 659	7 331	
Machine operators and leaders, except precision	17 064	17 520	13 880	14 607	11 202	11 683	9 840	9 285	12 842	12 847	9 355	8 240	9 936	10 177	9 088	
Metalworking and plastic working machine operators	15 973	16 471	13 100	14 060	11 244	11 782	9 816	9 201	11 313	11 818	10 471	10 459	10 791	9 218	9 481	
Fabricating machine operators, n.e.c.	16 671	18 663	9 372	14 005	10 330	12 115	6 475	7 006	11 137	11 548	9 505	10 170	9 252	8 843	7 874	
Metal and plastic processing and woodworking machine operators	12 284	12 567	10 895	10 205	10 673	11 150	9 578	9 226	11 352	11 547	10 806	9 413	9 686	7 769	8 272	
Printing machine operators	14 137	14 450	12 442	13 687	12 470	12 788	11 261	12 677	12 842	12 847	9 355	10 005	10 364	10 718	8 024	
Textile machine operators	8 663	7 996	14 005	15 638	7 922	8 785	6 147	14 125	7 833	10 024	2 605	8 611	9 778	4 952	8 032	
Textile sewing machine operators	9 226	9 566	6 930	3 005	7 431	5 745	8 978	1 005	6 262	6 262	10 402	6 413	7 157	6 023	6 103	
Laundry and dry cleaning machine operators	12 439	19 462	15 087	14 428	10 571	10 722	9 865	10 000	10 991	13 114	16 497	11 911	12 099	11 064	13 051	
Food, kind, and oven operators, except food	19 189	19 462	16 258	17 447	12 748	13 350	10 889	9 317	11 079	11 425	10 502	11 352	11 738	9 240	10 772	
Other specified machine operators	14 029	15 317	10 701	11 721	10 714	12 430	10 118	8 774	11 399	12 131	10 459	10 278	10 565	9 661	8 974	
Miscellaneous and not specified machine operators	15 257	15 777	12 604	13 742	11 530	12 230	10 111	8 774	11 399	12 131	10 459	10 278	10 565	9 661	8 974	
Fabricators, assemblers, and hand working occupations	18 649	19 018	15 473	15 280	11 379	11 775	9 641	10 312	11 217	11 619	10 092	8 743	8 886	8 230	8 199	
Welders and cutters	15 005	15 005	10 683	16 241	12 892	12 892	10 514	10 805	12 573	12 840	13 376	8 565	12 759	11 308	9 589	
Solders and brazers	13 750	14 299	11 492	11 269	10 120	10 540	8 707	10 126	10 348	10 908	8 817	8 500	8 234	7 689	8 381	
Assemblers	13 877	18 133	14 905	15 615	10 772	10 925	10 965	8 329	10 955	11 001	11 467	9 707	7 776	7 133	8 374	
Hand working occupations	17 836	18 133	14 905	15 615	10 571	10 925	10 359	7 842	9 341	9 846	8 983	10 357	10 551	10 875	7 700	
Production inspectors, testers, samplers, and weighers	14 695	14 636	14 852	12 605	7 831	8 187	7 157	5 862	7 034	7 340	6 538	5 695	7 273	7 393	6 213	
Other production inspectors, testers, samplers, and weighers	17 880	18 173	14 907	15 744	14 023	14 038	14 246	13 793	14 138	14 356	13 406	15 628	13 061	13 231	8 594	
Transportation and material moving occupations																
Transportation occupations	13 765	14 449	11 658	11 992	13 550	13 964	11 122	11 515	14 845	15 243	12 290	12 433	11 023	9 808	9 574	
Motor vehicle operators	12 918	13 495	11 476	11 717	13 657	14 044	11 163	11 496	14 988	15 352	12 348	12 608	10 843	9 634	9 209	
Truck drivers	12 808	13 455	11 488	11 705	13 638	14 028	11 126	11 470	14 986	15 350	12 339	12 600	10 840	9 630	9 216	
Other motor vehicle operators	14 479	14 699	13 375	11 590	13 146	13 536	10 932	11 230	14 298	14 709	12 968	12 362	10 481	9 620	9 126	
Other motor vehicle operators	13 929	14 403	12 985	11 099	15 970	16 054	13 830	13 425	16 405	16 497	15 038	13 880	12 687	11 167	11 226	
Rail and water transportation occupations	15 470	16 301	12 864	13 181	13 999	14 403	11 469	11 780	16 283	16 798	12 056	12 595	9 068	8 395	8 123	
Material moving equipment operators	15 976	16 457	12 864	13 132	19 491	19 641	18 753	20 395	17 041	16 846	18 305	26 595	12 577	12 535	7 002	
Supervisors, material moving equipment operators	20 652	20 437	22 019	13 133	12 851	13 378	10 953	11 587	13 676	14 226	12 020	11 696	12 518	10 947	12 297	
Crane, hoist, and winch operators	17 595	18 142	12 980	13 133	15 530	15 493	15 493	17 835	16 636	16 636	22 717	19 471	14 689	13 149	12 977	
Excavating, grading, and dozer machine operators	15 349	15 618	13 351	16 893	13 744	14 067	12 626	14 333	14 878	14 609	16 327	14 432	15 312	16 878	17 986	
Other material moving equipment operators	15 652	16 225	12 561	13 216	13 103	13 963	8 313	12 201	9 549	11 095	8 162	8 618	12 298	9 530	12 350	
Handriers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers	11 010	11 894	9 186	9 831	9 512	9 738	8 531	8 475	10 230	10 599	8 712	8 941	6 026	5 942	6 493	
Helpers, craft and production	17 765	19 573	13 489	13 479	16 368	16 248	19 234	8 256	16 649	15 950	22 095	10 005	12 927	12 903	13 705	
Construction laborers	13 331	11 728	10 017	10 023	7 575	7 384	7 384	7 621	8 114	9 028	5 062	9 648	5 707	5 613	6 458	
Freight, stock, and material handlers	13 730	14 327	11 144	12 702	10 585	11 326	7 200	8 626	9 517	10 121	5 062	7 273	10 456	9 137	6 592	
Garage and service station occupations, and equipment cleaners	10 401	11 441	8 795	9 326	8 758	8 922	8 028	7 861	9 207	9 415	8 344	7 778	5 666	5 606	5 663	
Hand packers and packagers	12 946	13 900	10 889	8 688	8 206	8 269	8 038	8 212	9 537	9 673	9 532	8 714	5 709	5 624	6 613	
Laborers, except construction	10 508	12 167	9 323	4 640	8 412	8 921	7 906	8 014	8 741	9 395	7 508	8 247	6 108	5 958	6 470	
Laborers	10 852	11 519	9 323	7 753	10 105	10 333	9 001	8 903	11 395	11 796	9 453	10 054	8 398	8 406	8 201	

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	10 686	10 777	10 047	9 971	8 630	8 726	7 710	7 189	7 602	7 783	6 328	6 088	5 304	5 304	5 251	5 092
Managerial and professional specialty occupations	14 362	14 475	13 174	14 900	12 899	12 910	12 844	11 158	11 954	11 989	8 111	10 123	9 042	9 051	8 615	8 436
Executive, administrative, and managerial occupations	14 137	14 197	13 050	14 664	13 029	13 061	12 109	11 263	12 023	12 045	8 056	10 472	7 431	7 431	6 777	8 566
Offices and administrative, public administration	18 636	18 636	13 610	24 213	14 154	14 154	12 124	10 935	14 962	15 042	8 445	12 983	7 235	7 249	4 505	10 245
Financial managers	16 205	16 325	13 610	24 213	14 154	14 208	12 124	10 935	14 962	15 042	8 445	12 983	11 530	11 600	10 155	11 154
Managers, marketing, advertising, and public relations	13 897	13 636	15 008	14 490	14 490	14 562	13 999	10 793	13 197	13 638	7 028	11 076	9 851	9 867	10 025	8 543
Administrators, education and related fields	7 821	7 821	—	—	7 751	7 760	7 731	—	6 910	6 910	—	—	9 779	9 961	9 509	23 005
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	16 998	17 112	13 565	12 832	14 618	14 702	12 025	12 480	13 533	14 124	1 325	13 024	11 482	11 590	10 264	9 421
Managers and administrators, n.e.c.	14 266	14 173	15 110	14 469	13 564	13 589	12 114	11 189	12 822	12 766	8 283	9 437	8 948	8 987	8 066	8 293
Salaried	14 446	14 360	15 460	14 489	13 572	13 594	12 310	11 645	13 110	12 984	9 657	10 216	9 339	9 396	8 188	8 398
Self-employed	8 216	7 920	—	—	8 735	8 817	7 683	6 730	9 217	9 806	2 054	1 791	7 338	7 269	7 334	7 955
Management related occupations	13 790	13 925	12 264	14 543	11 321	11 297	11 279	11 423	10 428	10 429	8 159	10 856	10 266	10 307	9 642	9 146
Accountants and auditors	13 133	13 276	11 076	12 872	11 300	11 268	11 480	12 685	10 254	10 225	8 970	11 181	9 466	9 397	9 880	9 191
Personnel, training, and labor relations specialists	16 123	16 295	14 906	19 755	14 299	14 282	13 915	11 377	10 037	11 279	6 774	5 431	9 841	9 704	9 109	8 642
Buyers and purchasing agents	13 843	13 917	12 456	17 795	10 531	10 535	10 088	9 655	10 413	10 399	7 712	11 299	10 795	10 849	9 902	9 483
Inspection and compliance officers	10 477	10 327	12 641	2 095	7 419	7 366	8 005	10 005	6 876	6 876	—	10 005	8 693	8 676	7 784	7 024
Other management related occupations	14 482	14 463	15 478	12 095	12 913	12 926	11 554	15 242	11 979	11 979	—	35 410	9 262	9 376	7 634	7 657
Professional specialty occupations	14 816	15 045	13 408	15 432	12 057	11 899	15 697	10 547	11 161	11 315	8 654	7 260	7 533	7 446	8 242	7 853
Engineers, architects, and surveyors	14 440	15 019	11 078	16 457	13 931	13 688	15 630	12 713	12 375	13 382	—	4 005	10 840	10 649	11 495	21 346
Architects	19 142	19 142	—	—	14 455	14 455	—	—	—	—	—	—	10 311	10 789	3 015	22 640
Engineers	14 435	15 014	11 066	16 457	14 042	13 720	18 109	12 713	12 375	13 382	—	4 005	11 044	10 615	14 793	10 125
Civil engineers	13 475	14 873	7 881	11 618	4 061	4 423	1 585	—	—	—	—	—	2 846	11 286	—	—
Electrical and electronic engineers	14 184	14 388	9 824	16 527	17 135	16 177	21 157	7 119	10 901	12 005	—	4 005	12 593	11 152	20 745	—
Industrial engineers	16 495	16 028	24 905	10 643	13 071	10 976	12 993	—	—	—	—	—	30 594	30 594	11 005	10 125
Mechanical engineers	12 655	13 350	—	—	13 071	10 976	—	—	—	—	—	—	10 599	10 208	—	—
Other engineers	15 435	16 257	11 453	18 125	15 888	15 423	19 362	20 172	15 348	15 348	—	—	5 655	5 655	—	—
Surveyors and mapping scientists	11 331	11 517	10 505	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	17 617	17 699	14 615	18 651	18 325	18 185	19 598	18 939	19 702	19 702	—	—	15 836	15 707	17 900	11 590
Operations and systems researchers and analysts	18 203	18 582	14 299	17 338	14 669	14 691	10 532	15 469	19 910	19 910	—	—	14 621	14 348	9 930	10 766
Mathematical scientists	13 748	13 748	13 566	21 505	13 613	13 128	19 509	15 244	9 793	8 890	8 005	10 299	10 025	11 009	11 784	—
Natural scientists	14 148	14 394	12 319	14 394	12 446	12 610	10 433	8 546	9 896	10 719	—	1 705	7 399	6 932	5 465	16 369
Chemists, except biochemists	14 004	14 215	12 823	—	13 483	13 685	10 433	17 005	9 847	9 846	8 005	1 705	7 884	7 963	5 844	—
Other natural scientists	14 343	14 608	11 078	—	11 672	11 872	10 433	6 008	9 951	11 356	—	—	7 289	6 717	5 302	16 369
Health diagnosing occupations	14 965	5 005	20 657	—	15 341	15 341	—	—	—	—	—	—	9 983	9 863	11 250	9 165
Health assessment and treating occupations	13 705	14 143	11 397	12 005	11 123	11 351	4 789	6 932	13 049	14 098	4 305	12 005	11 459	11 237	12 215	11 908
Registered nurses	13 968	14 492	11 397	12 005	11 490	11 615	2 005	6 932	10 043	10 043	—	—	10 345	10 251	10 572	12 100
Other health assessment and treating occupations	9 294	9 294	—	—	10 506	10 830	5 266	6 932	14 396	16 249	4 305	12 005	11 520	11 293	12 308	11 903
Teachers, except postsecondary	13 646	13 730	12 553	33 005	11 745	10 410	18 601	12 678	15 097	14 331	14 255	—	4 310	4 239	7 647	5 066
Social scientists and urban planners	14 785	14 376	17 461	20 500	13 434	13 307	18 020	19 877	10 701	10 373	17 005	12 005	12 550	12 349	11 285	23 901
Social and recreation workers	11 434	11 442	10 631	—	11 526	12 372	10 090	7 005	25 069	28 748	—	—	5 583	5 589	3 090	8 643
Lawyers and judges	20 576	20 512	13 753	12 260	27 826	26 315	71 599	8 849	8 507	8 637	7 012	—	20 374	19 591	29 406	6 470
Writers, artists, entertainers, and athletes	13 869	14 065	13 753	10 005	9 907	9 967	10 354	9 001	8 507	8 637	—	—	6 749	6 749	6 533	6 470
Other professional specialty occupations	13 205	15 686	13 618	10 005	9 215	9 473	13 543	9 001	10 417	10 417	—	—	8 625	8 663	5 294	3 255
Technical, sales, and administrative support occupations	10 334	10 346	10 115	9 882	8 404	8 405	8 369	7 773	7 845	7 838	7 512	7 547	5 406	5 403	5 405	5 184
Technicians and related support occupations	12 201	12 326	10 783	12 177	10 906	10 759	11 698	6 339	9 573	9 573	8 122	8 302	8 831	8 751	8 675	8 764
Health technicians and technicians	10 552	11 620	6 963	15 894	10 862	10 862	12 042	6 353	9 112	9 112	—	—	6 532	6 464	6 432	6 384
Licensed practical nurses	17 315	21 970	8 005	—	10 472	10 669	9 672	—	2 002	2 002	—	—	5 764	5 652	6 681	3 079
Other health technicians and technicians	9 876	10 937	6 804	15 894	10 958	10 458	15 005	6 353	11 778	11 778	—	—	6 697	6 609	6 246	7 045
Engineering and science technicians	11 639	11 689	10 773	11 682	9 839	9 715	11 714	9 038	8 111	8 043	8 464	8 193	8 463	8 391	8 879	8 435
Electrical and electronic technicians	13 990	13 951	14 788	11 336	10 713	10 785	9 577	9 038	10 509	10 509	—	—	9 616	9 372	8 306	8 457
Industrial and mechanical engineering technicians	14 650	14 650	—	—	7 140	7 140	—	5 005	10 509	10 509	—	—	10 447	11 587	7 443	—
Drafting and surveying technicians	11 124	11 011	10 548	13 810	9 188	9 472	4 156	5 005	13 001	13 001	—	—	7 325	7 188	9 384	6 989
Other engineering and science technicians	11 404	11 648	10 611	7 833	9 821	9 557	13 418	9 114	7 645	7 509	8 464	7 418	8 724	8 642	9 191	13 655
Technicians, except health, engineering, and science	13 106	13 225	11 684	13 368	11 651	11 507	11 664	11 939	10 901	11 193	7 717	8 525	9 288	9 181	10 360	9 351
Airplane pilots and navigators	22 005	22 005	—	—	52 880	17 421	—	110 500	10 901	—	—	—	16 873	16 873	16 873	23 675
Air traffic controllers and broadcast equipment operators	9 501	9 501	—	—	12 034	11 914	—	8 115	11 349	—	—	—	6 744	7 170	—	—
Computer programmers	14 006	14 042	12 915	15 053	12 105	12 093	12 426	8 115	11 349	11 769	4 631	5 555	11 938	11 906	12 071	11 445
Other technicians, except health, engineering, and science	11 989	12 297	9 913	13 142	10 271	10 279	10 341	10 033	9 439	9 204	10 802	11 267	7 946	7 908	7 130	7 575

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Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	9 328	9 315	9 183	9 225	9 139	9 222	7 946	7 565	7 216	7 251	5 842	7 091	4 924	4 919	4 919	4 734
Supervisors and proprietors, sales occupations	9 401	9 401	—	3 005	12 036	11 107	8 472	10 935	10 567	10 519	4 707	13 718	8 320	8 301	8 316	8 186
Self-employed	9 434	9 434	—	3 005	12 061	11 205	8 472	10 935	10 567	10 519	4 707	13 718	8 320	8 301	8 316	8 186
Sales representatives, finance and business services	10 943	10 943	11 458	12 663	8 937	8 367	5 533	10 937	10 964	9 314	—	17 580	6 788	6 694	6 585	6 661
Sales representatives, commodities, except retail	11 204	11 138	—	—	9 282	8 353	7 469	10 202	11 060	9 314	—	7 528	7 618	7 697	7 751	7 570
Sales workers, retail and personal services	22 005	22 005	8 459	8 616	9 646	9 693	9 050	8 795	8 018	7 987	7 817	7 528	4 200	4 051	5 343	—
Cashiers	8 813	8 827	8 548	8 616	6 079	6 155	5 654	5 395	5 159	5 164	4 916	5 199	4 493	4 475	4 648	4 418
Other sales occupations, retail and personal services	8 778	8 776	5 760	8 616	5 142	5 156	5 204	4 898	5 122	5 111	4 903	5 226	4 573	4 583	4 466	4 419
Other sales occupations	10 863	12 032	14 735	12 005	7 913	7 917	7 926	7 831	5 666	5 804	2 603	2 805	4 440	4 408	4 861	4 417
Administrative support occupations, including clerical	9 607	8 914	—	—	4 787	4 644	—	3 226	2 462	2 332	—	39	4 053	4 019	4 800	4 329
Supervisors, administrative support occupations	10 299	10 306	10 135	9 826	8 204	8 192	8 400	7 777	7 983	7 962	8 174	7 669	6 750	6 736	6 907	6 610
Computer equipment operators	14 799	14 832	14 229	13 480	11 991	12 084	10 344	10 596	11 761	11 798	9 342	10 802	9 498	9 506	9 263	9 463
Secretaries, stenographers, and typists	10 317	10 260	11 119	9 817	9 040	9 002	8 752	8 152	8 281	8 275	8 686	8 526	8 102	8 188	7 528	8 010
Secretaries	10 102	10 143	9 629	9 505	8 371	8 351	8 523	8 132	8 271	8 275	8 708	7 251	7 271	7 255	6 638	6 904
Stenographers and typists	10 349	10 353	10 179	9 755	8 551	8 523	8 339	8 297	8 784	8 738	7 146	8 805	7 504	7 481	8 336	6 904
Receptionists	9 212	9 246	8 902	8 935	6 612	6 546	6 839	6 424	6 605	6 449	6 618	5 805	5 553	5 406	6 807	5 486
Other information clerks	8 249	8 116	9 143	6 008	6 385	6 424	6 674	6 022	6 405	6 449	6 618	6 830	5 243	5 256	5 364	4 813
File clerks	10 466	10 437	10 785	11 591	7 452	7 382	8 144	9 022	7 381	7 381	2 240	9 426	5 202	5 171	4 777	4 777
Other records processing occupations, except financial	7 690	7 748	7 175	5 560	5 193	5 096	6 469	4 604	5 209	5 108	8 104	4 487	4 504	4 433	4 939	4 691
Bookkeepers, accounting, and auditing clerks	12 039	12 031	12 250	11 626	7 964	8 009	7 580	7 783	7 494	7 403	8 271	8 446	5 859	5 804	5 792	5 792
Payroll and timekeeping clerks	9 683	9 597	10 690	9 275	8 263	8 235	8 539	8 251	8 121	8 063	8 632	9 314	7 036	7 008	7 564	7 591
Other financial records processing occupations	11 845	11 915	11 321	10 089	9 105	9 106	8 486	9 264	8 651	8 742	9 357	9 357	7 716	7 707	8 115	7 203
Telephone operators	9 895	9 762	11 249	8 066	7 963	7 980	7 326	7 410	7 377	7 313	7 009	7 272	6 468	6 448	6 925	6 951
Mail and message distributing occupations	10 089	10 102	10 084	9 525	7 859	7 838	8 144	6 156	6 718	6 760	10 174	5 472	5 451	5 393	5 925	5 925
Production coordinators and expeditors	7 591	7 271	8 436	6 847	6 847	6 580	7 491	6 520	6 574	6 642	7 705	5 749	5 307	5 307	5 897	5 897
Traffic, shipping, and receiving clerks	12 210	12 433	10 426	13 095	9 267	9 389	7 710	7 513	7 810	7 827	7 626	6 762	5 805	5 888	5 997	5 438
Stock and inventory clerks	11 251	11 707	10 833	15 316	7 703	7 719	7 950	7 112	8 356	8 130	11 712	6 083	5 331	5 331	5 765	5 765
Other material recording, scheduling, and distributing clerks	9 633	9 605	9 891	9 786	7 884	7 724	7 689	6 851	6 709	6 709	11 712	6 083	5 331	5 331	5 765	5 765
Adjusters and investigators	10 783	10 733	11 078	9 803	7 884	7 724	7 689	6 851	6 709	6 709	11 712	6 083	5 331	5 331	5 765	5 765
Data-entry keyers	9 746	9 800	8 903	9 903	6 299	6 212	8 979	7 624	8 170	8 144	7 008	8 678	7 342	7 203	7 397	7 397
Other administrative support occupations	9 983	10 027	9 432	9 847	7 206	7 142	8 071	6 985	6 740	6 678	7 016	7 417	6 024	5 987	6 436	6 071
Service occupations	7 058	7 272	6 834	5 345	4 789	4 745	4 965	4 783	4 672	4 437	5 181	5 282	3 646	3 582	4 098	3 759
Private household occupations	8 701	9 043	7 606	14 182	7 826	8 529	5 295	11 255	4 899	6 540	2 329	—	5 568	5 546	5 746	4 718
Protective service occupations	8 654	8 987	7 606	14 182	7 826	8 529	5 295	11 255	4 899	6 540	2 329	—	5 568	5 546	5 746	4 718
Other protective service occupations	11 476	11 476	—	—	6 370	255	13 505	—	4 899	6 540	2 329	—	10 377	10 377	11 040	3 822
Service occupations, except protective and household	6 729	6 860	6 716	5 011	4 690	4 608	4 956	4 744	4 669	4 420	5 215	5 282	3 631	3 548	4 076	3 749
Food preparation and service occupations	6 920	6 551	8 695	4 639	4 520	4 515	4 484	4 904	4 329	4 216	4 473	5 219	3 604	3 544	4 052	3 713
Health service occupations	8 661	8 968	7 603	5 452	5 452	5 835	4 619	1 826	10 698	13 606	1 005	9 805	5 385	5 402	4 957	4 935
Cleaning and building service occupations, except household	6 686	6 847	6 620	5 229	4 516	4 286	4 996	4 792	5 245	4 644	6 221	5 320	3 595	3 333	4 219	3 856
Personal service occupations	6 201	6 455	5 947	1 139	6 006	6 023	6 801	4 491	4 668	4 947	1 872	6 005	4 674	4 605	4 713	5 190
Farming, forestry, and fishing occupations	5 570	6 753	1 443	2 555	4 273	4 017	3 625	4 753	3 922	2 353	5 383	1 459	4 155	4 144	3 595	5 232
Precision production, craft, and repair occupations	12 489	12 509	12 883	11 241	8 741	9 148	7 309	7 019	7 700	8 081	6 288	7 101	6 875	6 885	6 927	6 803
Mechanics and repairers	12 894	12 908	12 997	10 231	8 940	9 237	8 174	6 116	6 990	7 309	5 611	—	7 794	7 823	7 516	6 769
Supervisors, mechanics and repairers	15 171	15 171	—	—	9 706	9 994	3 455	2 543	5 484	5 952	3 455	—	8 898	10 312	7 660	8 859
Automobile mechanics, including body	12 533	12 913	10 193	23 005	6 820	7 124	6 692	2 472	6 555	6 555	6 084	—	8 197	8 020	8 834	7 210
Industrial machinery repairers	12 060	11 775	13 891	—	8 952	9 436	7 717	8 422	9 919	12 768	6 084	—	7 295	6 616	9 412	4 600
Electronic repairers, communications and industrial equipment	24 985	31 326	17 161	—	8 846	8 438	13 236	8 088	—	—	—	—	6 908	7 227	2 370	8 010
Heating, air conditioning, and refrigeration mechanics	12 722	12 722	—	—	9 084	9 335	8 359	6 130	—	—	—	—	8 545	10 862	2 375	7 128
Other mechanics and repairers	11 765	11 742	12 197	9 184	9 105	9 406	7 885	7 740	8 726	8 972	5 255	—	7 008	7 051	6 459	7 128
Construction trades	10 412	10 315	12 053	9 770	7 022	7 124	6 822	6 941	6 714	6 780	4 715	—	5 032	4 960	5 814	4 979
Supervisors, construction occupations	13 516	15 554	11 484	—	8 386	8 386	—	—	10 255	10 255	4 715	—	7 468	7 834	305	14 505
Carpenters	6 654	9 521	11 005	8 230	8 202	7 518	6 927	7 005	4 313	4 272	4 715	—	5 044	5 044	3 120	10 005
Electricians	12 414	12 500	13 016	—	8 860	8 199	8 199	11 372	9 155	9 155	—	—	7 931	7 352	12 380	7 404
Painters, construction and maintenance	11 346	10 540	12 641	15 098	8 485	5 010	4 995	4 143	13 465	13 465	—	—	3 374	3 281	4 356	7 404
Plumbers, pipefitters, and steamfitters	12 913	13 542	6 551	7 895	8 485	9 361	7 805	6 925	13 465	13 465	—	—	3 915	3 915	4 356	7 404
Other construction trades	8 205	7 353	12 417	7 895	6 314	6 440	6 985	4 887	4 560	4 560	—	—	5 595	5 385	9 514	5 508

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

United States															
Utilities and sanitary services				Wholesale Trade, total				Groceries and farm products				Retail Trade, total			
Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	
Total	White		Total	White		Total	White		Total	White		Total	White		Total
Employed females 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Extractive occupations—mining															
5 475	9 490	3 245	5 901	2 724	7 116	6 885	3 005	4 426	3 163	7 716	4 426	5 374	6 794		
13 275	13 314	13 564	8 788	7 190	7 122	7 688	8 070	6 847	6 860	7 091	6 847	6 883	8 341		
16 242	16 132	17 590	11 477	6 539	10 257	10 339	10 268	8 941	9 000	8 941	8 941	8 667	7 266		
14 008	14 143	13 555	6 573	6 961	6 005	5 034	5 818	2 164	5 618	1 780	6 127	7 428	9 616		
8 093	8 224	1 305	6 124	7 005	6 005	4 892	4 755	5 205	7 797	1 780	6 092	7 908	6 134		
13 785	13 785	16 751	6 638	6 170	6 005	5 049	5 005	5 526	6 535	5 526	6 535	6 535	6 535		
12 765	12 765	16 751	6 554	6 554	6 554	5 407	5 407	5 407	5 407	5 407	5 407	5 407	5 407		
1 972	2 005	—	4 427	5 516	5 592	4 907	4 907	5 005	5 532	5 890	5 532	6 308	6 308		
12 544	12 276	—	6 434	6 693	5 899	6 431	6 684	5 755	5 907	5 907	6 106	6 308	6 308		
13 102	13 110	13 363	7 688	7 478	5 130	6 431	6 684	5 755	5 907	5 907	6 106	6 308	6 308		
10 543	10 614	10 154	10 129	11 758	19 805	4 851	1 805	6 755	8 987	7 959	8 987	7 959	10 696		
7 650	9 780	3 755	7 308	7 281	6 449	2 936	2 936	—	7 647	7 633	7 647	7 633	7 633		
Manufacturing occupations															
8 336	8 798	7 540	6 300	6 409	5 465	5 854	6 024	5 491	5 451	4 843	5 491	5 451	5 451		
9 708	10 076	8 957	6 308	6 372	5 320	5 406	5 508	5 343	5 258	4 304	5 343	5 258	5 400		
9 678	10 018	9 714	6 767	6 949	5 848	6 950	7 375	5 325	5 325	5 325	5 325	5 325	5 325		
8 921	9 414	2 870	7 518	7 794	3 468	6 598	6 598	6 598	6 598	6 598	6 598	6 598	6 598		
8 284	8 441	8 845	7 689	7 994	4 405	—	—	—	—	—	—	—	—		
6 980	7 668	5 519	7 995	7 322	7 352	6 007	4 702	6 211	6 061	4 505	6 211	6 061	6 061		
8 764	8 088	10 026	6 956	6 930	5 158	6 214	6 260	7 005	6 558	7 771	6 558	7 443	7 443		
5 530	5 708	905	6 168	6 139	7 745	13 923	5 561	5 135	5 320	5 363	5 135	5 320	5 320		
9 005	9 408	7 805	4 275	4 272	5 112	3 866	3 556	4 515	3 847	4 515	3 847	4 515	4 515		
8 696	9 408	7 805	4 275	4 272	5 112	3 866	3 556	4 515	3 847	4 515	3 847	4 515	4 515		
15 455	17 577	14 318	6 793	4 372	6 085	15 813	15 813	—	6 721	6 721	6 721	6 721	6 721		
9 374	9 211	11 064	5 809	5 429	4 373	5 428	5 813	—	6 721	6 721	6 721	6 721	6 721		
9 882	10 400	8 037	7 095	7 243	6 768	6 212	7 396	6 637	5 096	5 625	5 096	5 625	5 625		
Other precision production occupations															
9 346	9 878	7 851	7 000	6 944	6 803	6 427	5 358	5 303	5 141	5 039	5 303	5 141	5 141		
15 535	15 432	14 915	7 390	7 583	6 276	6 076	6 076	6 076	6 076	6 076	6 076	6 076	6 076		
10 287	9 235	12 053	6 408	6 271	6 356	6 076	6 076	—	5 461	5 461	5 461	5 461	5 461		
7 482	7 898	6 639	4 610	4 610	6 983	6 738	5 499	5 943	5 154	4 394	5 326	5 005	5 005		
13 274	16 196	4 505	4 075	4 946	4 942	4 543	4 543	4 404	4 394	4 394	4 394	4 394	4 394		
10 458	10 781	3 960	5 257	5 305	5 759	4 388	4 591	5 155	5 828	5 361	5 828	5 361	5 361		
3 721	1 445	1 240	6 677	4 588	4 988	4 015	4 400	4 602	4 592	4 689	4 592	4 689	4 689		
Other production occupations															
11 020	11 008	11 878	7 788	7 773	7 818	7 122	6 908	7 736	7 346	6 634	7 346	7 681	7 267		
Transportation and material moving occupations															
8 277	7 847	10 399	8 963	7 245	8 964	7 742	8 294	8 085	5 274	6 314	5 274	6 314	5 245		
7 347	6 494	10 234	7 433	6 989	6 697	8 063	8 085	10 483	5 149	5 093	5 149	5 093	5 093		
7 351	6 491	10 234	7 433	6 989	6 697	8 063	8 085	10 483	5 149	5 093	5 149	5 093	5 093		
7 138	6 197	10 528	7 083	6 578	6 860	7 770	8 063	10 907	5 077	4 947	5 077	4 947	4 947		
9 749	9 749	8 546	8 825	8 752	8 449	7 483	6 741	10 080	4 848	4 768	4 848	4 768	4 768		
8 732	8 582	8 546	11 005	8 825	8 752	10 579	11 652	10 349	5 576	5 445	5 576	5 445	5 445		
6 765	6 765	—	7 694	5 337	5 082	4 670	5 045	11 705	5 320	5 483	5 320	5 483	5 483		
10 987	11 316	11 243	9 014	8 395	8 638	9 925	5 045	9 316	5 609	5 433	5 609	5 433	5 433		
19 005	19 005	—	3 454	6 890	9 531	7 201	5 045	9 316	7 362	7 073	7 362	7 073	7 073		
7 825	5 564	12 965	12 905	12 004	6 589	9 885	13 005	13 005	9 324	9 066	9 324	9 066	9 066		
11 206	13 659	7 965	12 905	12 004	6 589	9 885	13 005	13 005	9 324	9 066	9 324	9 066	9 066		
11 259	11 215	12 931	9 632	9 919	8 866	7 164	9 547	9 776	8 351	8 153	8 351	8 153	8 153		
Other material moving occupations															
7 122	7 779	6 236	6 369	5 873	5 496	5 993	6 206	5 700	5 542	5 514	5 542	5 514	5 514		
Handriers, equipment cleaners, helpers, and laborers															
17 834	17 834	—	10 685	10 605	—	7 421	8 126	3 823	7 075	7 117	7 075	7 117	7 117		
9 989	10 171	10 750	3 946	7 431	6 560	6 560	8 126	3 823	7 075	7 117	7 075	7 117	7 117		
9 244	11 351	6 990	5 684	6 178	5 963	5 963	8 126	3 823	7 075	7 117	7 075	7 117	7 117		
6 550	7 754	6 580	9 865	5 687	6 045	5 289	5 385	4 695	4 942	4 877	4 942	4 877	4 877		
Construction laborers															
Freight, stock, and material handlers															
8 268	10 056	2 704	6 200	6 354	5 742	7 084	7 352	5 259	3 914	3 875	3 914	3 875	4 215		
8 292	10 046	8 526	6 058	6 163	6 075	5 514	6 208	6 317	7 386	7 477	7 386	7 477	7 477		
6 703	7 404	5 599	6 208	6 381	5 688	5 503	6 589	6 105	5 246	5 216	5 246	5 216	5 216		

Bureau of Spanish origin may be of any race

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over

	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Managerial and professional specialty occupations	12 128	12 640	8 847	8 998	11 653	11 888	9 207	10 107	13 723	14 041	9 447	11 009	13 183	13 833	7 973	9 172
Executive, administrative, and managerial occupations	20 811	21 358	13 719	15 063	19 952	20 438	13 928	16 398	24 907	25 190	15 206	19 425	22 776	22 440	13 379	13 256
Officials and administrators, public administration	21 254	21 810	14 113	15 282	19 943	20 427	13 922	16 398	24 907	25 190	15 206	19 425	22 776	22 440	13 379	13 256
Financial managers	12 208	12 208	14 113	15 282	19 943	20 427	13 922	16 398	24 907	25 190	15 206	19 425	22 776	22 440	13 379	13 256
Managers, marketing, advertising, and public relations	26 565	27 099	14 883	19 907	25 759	25 737	14 960	22 005	26 747	26 747	15 181	26 932	25 381	25 339	16 974	19 873
Administrators, education and related fields	20 022	20 512	13 537	16 433	22 571	22 903	15 345	18 316	24 667	24 801	17 842	26 547	22 547	22 547	12 939	11 844
Managers, medicine and health	34 961	34 961	—	12 005	47 117	47 117	—	18 316	20 885	20 953	16 005	100 500	20 391	20 391	—	—
Managers, medicine and health	24 405	24 495	18 659	22 815	18 437	19 268	14 973	13 680	20 275	20 922	10 105	10 839	23 063	23 650	13 252	11 903
Other specified managers	21 279	21 937	13 459	13 968	19 695	20 314	13 622	16 631	26 007	26 314	14 580	18 825	23 743	24 474	14 261	14 355
Managers and administrators, n.e.c.	21 414	22 092	13 524	14 114	20 119	20 610	13 841	16 927	26 764	27 088	14 208	18 985	24 919	24 919	14 404	14 707
Salaried	17 386	17 630	7 510	4 624	16 776	17 182	12 417	14 990	20 258	20 258	17 131	17 883	20 681	20 556	31 628	10 631
Self-employed	19 663	20 086	14 455	14 759	20 094	20 094	15 576	15 369	19 439	19 764	14 810	15 345	21 648	22 214	14 094	13 244
Management related occupations	17 676	18 308	11 064	12 609	17 441	17 654	15 217	8 887	19 282	19 674	15 138	15 839	18 017	18 831	14 958	13 377
Accountants and auditors	18 349	18 836	14 650	11 439	20 484	21 189	16 388	16 665	22 052	22 565	9 165	14 306	22 444	22 824	13 754	8 005
Personnel, training, and labor relations specialists	20 290	20 618	15 359	16 513	20 484	20 641	16 421	18 297	18 590	22 565	9 165	14 306	22 444	22 824	13 754	8 005
Buyers and purchasing agents	14 171	14 171	—	18 804	22 424	22 424	3 305	23 965	6 422	8 499	9 004	1 892	22 005	22 005	—	—
Inspectors and compliance officers	20 494	20 997	14 832	18 804	24 424	25 423	3 305	23 965	6 422	8 499	9 004	1 892	22 005	22 005	—	—
Other management related occupations	17 369	17 795	10 876	13 898	20 178	20 871	14 033	14 285	23 151	23 581	15 812	15 139	15 796	16 455	9 604	10 482
Professional specialty occupations	22 526	22 714	18 173	19 472	22 452	22 772	14 579	20 180	21 726	21 862	10 408	17 362	19 034	20 943	5 953	18 507
Engineers, architects, and surveyors	26 465	26 733	14 005	32 005	23 626	23 873	12 355	17 505	27 655	28 253	10 408	17 362	20 897	23 884	9 576	11 005
Architects	21 133	21 188	18 867	14 458	22 129	22 433	12 196	26 005	21 324	21 452	10 408	—	17 870	19 288	2 051	21 476
Engineers	25 499	24 933	—	—	21 811	22 644	—	—	25 132	25 132	—	—	6 795	14 505	—	—
Civil engineers	17 485	17 188	20 005	6 705	19 117	18 537	24 505	21 005	20 392	20 392	10 005	—	18 005	18 005	—	—
Electrical and electronic engineers	22 388	22 505	12 005	13 005	22 711	22 932	15 005	21 005	16 847	17 266	10 005	—	18 005	18 005	—	—
Industrial engineers	18 987	18 669	22 741	19 019	21 476	21 476	—	—	15 314	15 676	10 925	—	27 664	27 664	—	—
Mechanical engineers	21 823	22 485	13 005	19 719	23 313	24 074	8 255	—	24 372	24 198	—	—	22 638	23 637	—	—
Other engineers	—	—	—	—	—	—	—	—	17 709	17 709	—	—	—	—	—	—
Surveyors and mapping scientists	22 400	22 994	19 078	19 584	22 903	22 531	26 005	23 604	23 875	24 207	21 373	22 745	19 993	19 793	23 269	—
Computer systems analysts and scientists	21 625	21 470	18 297	18 088	18 088	18 131	17 005	8 310	21 642	21 642	—	—	17 838	19 578	—	—
Operations and systems researchers and analysts	21 788	26 846	—	13 405	14 952	10 505	—	—	10 910	10 910	—	—	—	—	—	—
Mathematical scientists	14 571	14 591	—	—	16 667	18 890	37 929	—	25 961	25 961	—	33 005	49 065	49 065	—	—
Natural scientists	14 571	14 591	—	—	16 667	18 890	37 929	—	25 961	25 961	—	33 005	49 065	49 065	—	—
Chemists, except biochemists	26 716	26 716	—	—	22 677	16 005	64 085	—	27 567	27 567	—	33 005	49 065	49 065	—	—
Other natural scientists	20 449	20 694	14 813	23 125	21 798	23 007	5 860	22 643	39 949	39 064	—	25 005	54 529	54 529	—	—
Health diagnosing occupations	15 703	19 549	3 205	23 125	21 272	21 272	—	24 265	18 418	17 100	—	25 005	22 222	22 430	—	—
Health assessment and treating occupations	20 493	20 703	15 760	23 125	21 272	21 272	—	24 265	18 418	17 100	—	25 005	22 222	22 430	—	—
Registered nurses	11 882	12 611	7 313	17 330	14 570	15 027	15 058	12 732	13 969	13 576	—	18 559	6 489	6 472	7 785	—
Other health assessment and training occupations	31 105	31 689	8 845	17 330	25 907	25 428	35 716	12 732	24 510	24 284	—	18 559	6 489	6 472	7 785	—
Teachers, except postsecondary	6 070	3 395	—	21 255	9 072	10 931	1 405	—	11 897	11 897	—	—	23 451	23 451	—	—
Social scientists and urban planners	43 786	45 237	19 245	21 255	33 575	34 589	—	—	85 366	85 366	—	—	29 559	29 559	—	—
Social and recreation workers	13 383	13 671	8 632	11 814	14 721	15 409	4 805	7 354	20 209	21 674	13 880	7 515	13 696	14 182	9 273	9 795
Lawyers and judges	44 531	44 531	—	—	18 595	18 595	—	—	13 039	12 696	15 605	15 005	7 384	6 400	13 005	—
Writers, artists, entertainers, and athletes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other professional specialty occupations	10 964	11 317	8 544	8 598	12 667	12 940	9 533	10 663	16 017	16 219	11 864	13 271	11 826	12 318	7 749	8 689
Technical, sales, and administrative support occupations	15 966	16 034	14 364	15 276	15 260	15 417	11 290	10 847	16 416	16 823	13 159	11 811	16 180	16 233	17 005	—
Technicians and related support occupations	17 857	18 648	16 367	—	20 005	20 005	—	—	18 399	18 399	—	—	10 005	10 005	—	—
Health technologists and technicians	28 125	28 125	—	—	—	—	—	—	27 008	27 008	—	—	10 005	10 005	—	—
Licensed practical nurses	15 902	15 575	—	—	20 005	20 005	—	—	14 094	14 094	—	—	—	—	—	—
Other health technologists and technicians	15 020	15 137	13 122	16 504	11 487	11 488	—	10 133	15 395	15 395	15 199	11 275	15 112	15 044	15 790	—
Engineering and science technicians	15 340	15 424	13 802	15 705	16 316	15 573	25 005	20 005	17 867	17 362	22 411	15 341	16 967	18 088	9 125	—
Electrical and electronic technicians	9 812	9 812	—	18 434	4 386	4 492	—	8 723	16 456	16 456	—	—	16 680	16 680	—	—
Industrial and mechanical engineering technicians	14 181	14 420	10 405	13 084	12 843	13 186	9 109	12 049	12 109	12 516	17 005	9 772	15 658	15 095	19 955	—
Drafting and surveying technicians	16 893	17 148	14 805	21 370	13 253	14 208	11 269	—	15 498	15 498	17 005	8 811	15 658	15 095	19 955	—
Other engineering and science technicians	16 510	16 565	14 826	14 530	17 411	17 461	—	11 641	16 870	17 315	11 672	12 831	16 478	16 579	18 980	—
Technicians, except health, engineering, and science	26 724	26 724	—	—	30 390	30 390	—	—	21 334	21 632	7 205	20 005	9 005	9 005	—	—
Airplane pilots and navigators	7 805	7 805	—	—	14 300	14 300	—	—	11 333	11 333	—	—	16 212	16 157	—	—
Air traffic controllers and broadcast equipment operators	16 898	17 008	12 846	17 466	16 879	16 879	—	12 453	17 031	17 031	17 821	20 005	16 212	16 157	—	—
Computer programmers	15 600	15 555	16 386	12 520	17 150	17 327	—	8 275	15 858	16 491	9 609	7 241	16 764	18 324	—	—
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations	11 642	11 976	8 957	8 940	13 419	13 419	9 648	10 763	16 308	16 503	12 072	13 607	12 110	12 588	7 775	8 759
Salaried	17 143	17 503	12 458	13 492	17 135	17 135	13 022	14 566	19 248	19 470	12 753	16 173	18 513	18 969	12 146	14 762
Self-employed	17 429	17 741	12 458	13 372	17 831	17 831	13 022	14 566	19 248	19 470	12 753	16 173	18 513	18 969	12 146	14 762
Sales representatives, finance and business services	14 681	15 019	7 672	16 048	15 292	15 555	8 274	12 664	17 898	20 225	12 185	15 555	18 310	18 814	12 460	14 576
Sales representatives, commodities, except retail	15 702	16 065	12 469	5 004	19 290	19 566	8 274	12 664	17 898	20 225	12 185	15 555	18 310	18 814	12 460	14 576
Salespersons, retail and personal services	27 471	29 384	12 485	7 529	20 005	20 005	7 249	7 406	23 538	23 599	11 749	12 005	18 757	18 966	25 005	2 855
Cashiers	9 955	9 149	7 932	7 529	8 223	8 327	7 303	7 406	14 705	14 874	11 749	12 005	18 757	18 966	25 005	2 855
Other sales occupations, retail and personal services	9 273	9 859	5 337	4 895	8 117	8 187	7 303	7 406	14 705	14 874	11 749	12 005	18 757	18 966	25 005	2 855
Sales related occupations	14 208	13 919	8 567	7 881	15 746	16 998	8 529	7 219	15 092	15 242	12 242	12 946	6 934	7 381	9 716	6 987
Administrative support occupations, including clerical	8 299	8 450	7 588	7 486	10 367	10 504	9 183	10 078	11 426	11 594	9 792	9 181	8 497	8 770	7 652	8 164
Supervisors, administrative support occupations	15 061	15 359	13 250	12 802	16 544	16 858	13 948	13 948	18 344	18 344	12 395	15 896	15 433	15 941	13 328	13 417
Computer equipment operators	13 288	13 590	11 930	12 079	13 343	13 473	11 997	12 462	13 733	13 733	12 395	15 896	15 433	15 941	13 328	13 417
Secretaries, stenographers, and typists	9 485	10 682	6 087	12 034	11 908	11 848	8 560	10 676	18 632	19 190	6 989	20 116	10 916	10 905	12 391	8 285
Stenographers and typists	10 736	12 448	5 917	10 523	11 550	12 491	13 451	9 269	20 637	21 449	6 989	20 116	10 916	10 905	12 391	8 285
Receptionists	4 372	4 372	6 608	7 824	8 784	9 813	4 055	17 943	5 710	5 710	9 395	7 905	5 524	5 530	6 094	7 285
Other information clerks	6 204	6 331	5 441	5 305	16 342	16 446	4 055	4 385	13 454	13 091	9 395	7 905	5 524	5 530	6 094	7 285
File clerks	6 154	6 353	5 416	5 305	16 342	16 446	4 055	4 385	13 454	13 091	9 395	7 905	5 524	5 530	6 094	7 285
Other records processing occupations, except financial	8 288	8 503	7 413	3 484	11 623	11 704	8 187	10 644	15 460	15 049	9 320	14 045	8 356	9 176	4 000	8 986
Bookkeepers, accounting, and auditing clerks	9 520	10 160	6 817	8 173	11 146	11 204	9 685	10 911	10 911	10 943	11 672	7 385	10 057	10 123	9 083	9 660
Payroll and timekeeping clerks	9 010	9 799	6 817	8 173	11 146	11 204	9 685	10 911	10 911	10 943	11 672	7 385	10 057	10 123	9 083	9 660
Other financial records processing occupations	7 573	8 062	4 887	7 540	9 112	9 061	11 672	8 910	12 860	13 031	10 803	10 505	9 116	9 920	20 285	19 975
Telephone operators	4 678	5 029	3 059	8 722	15 005	15 005	8 722	15 005	12 860	13 031	10 803	10 505	9 116	9 920	20 285	19 975
Mail and message distributing occupations	7 000	7 422	6 200	6 155	7 434	7 933	6 512	7 193	9 558	9 794	7 642	5 253	11 434	13 170	6 930	6 654
Production coordinators and expeditors	8 643	9 030	5 538	8 895	10 682	10 574	8 959	11 114	12 000	11 855	16 315	7 642	7 515	8 174	6 878	7 512
Traffic, shipping, and receiving clerks	8 146	8 458	5 458	7 675	13 140	13 176	7 380	8 511	9 462	9 539	9 108	7 642	7 515	8 174	6 878	7 512
Other material handling, scheduling, and distributing clerks	7 904	8 278	5 346	5 676	13 140	13 176	7 380	8 511	9 462	9 539	9 108	7 642	7 515	8 174	6 878	7 512
Other material handling, scheduling, and distributing clerks	7 904	8 278	5 346	5 676	13 140	13 176	7 380	8 511	9 462	9 539	9 108	7 642	7 515	8 174	6 878	7 512
Adjusters and investigators	8 844	9 046	6 621	6 841	10 947	10 936	11 395	9 494	14 548	14 625	10 935	9 860	7 335	7 858	5 581	5 581
Date-entry keyers	7 899	8 162	5 596	5 264	12 185	12 185	9 206	9 774	12 939	13 239	8 439	7 336	7 098	7 498	6 702	6 105
Other administrative support occupations	8 522	8 901	7 381	6 942	12 739	12 739	8 703	10 425	10 583	10 913	9 243	13 083	8 302	9 636	9 125	9 125
Service occupations																
Private household occupations	7 210	7 327	6 866	6 800	6 618	6 500	7 139	7 012	6 554	6 469	6 834	6 541	5 487	5 568	4 970	6 546
Protective service occupations	8 810	8 897	8 468	9 480	11 236	12 165	9 620	9 612	9 362	9 541	8 804	8 122	6 894	7 675	3 466	7 823
Guards	8 205	8 182	8 233	9 044	10 693	11 414	9 677	9 105	9 362	9 541	8 804	8 122	6 894	7 675	3 466	7 823
Other protective service occupations	15 169	15 720	6 880	13 928	16 479	17 429	7 922	24 005	17 463	17 908	10 908	22 041	18 257	18 257	13 466	7 823
Service occupations, except protective and household	6 657	6 720	4 680	6 239	6 205	6 339	6 739	6 842	6 316	6 190	6 720	6 312	5 188	5 078	5 216	6 266
Food preparation and service occupation	4 594	4 650	4 650	5 219	6 739	6 739	5 917	5 544	6 386	6 694	5 655	7 258	8 469	8 142	13 005	6 398
Health service occupations	18 230	19 829	4 650	3 645	12 643	12 858	7 052	8 730	11 636	11 636	7 711	6 278	4 750	4 490	5 102	6 347
Cleaning and building service occupations, except household	7 031	7 121	6 796	6 479	7 514	7 820	8 340	4 698	6 316	6 173	4 505	6 278	4 750	4 490	5 102	6 347
Personal service occupations	9 396	9 633	8 465	8 636	7 541	7 820	8 340	4 698	6 316	6 173	4 505	6 278	4 750	4 490	5 102	6 347
Farming, forestry, and fishing occupations	6 616	6 708	4 527	5 895	8 158	8 102	8 320	10 492	6 379	7 022	6 006	2 241	12 258	12 258	14 002	3 411
Manufacturing occupations																
Production, craft, and repair occupations	13 387	13 694	11 242	11 578	14 758	14 981	11 878	12 615	13 072	13 232	10 369	11 634	13 298	13 938	8 394	10 850
Mechanics and repairers	12 605	12 483	10 778	10 476	16 211	16 257	16 356	13 869	12 857	13 006	10 262	11 593	12 732	13 033	7 134	12 238
Supervisors, mechanics and repairers	16 830	16 874	13 542	11 479	20 393	20 182	24 885	15 588	17 513	17 565	13 426	15 549	18 726	20 226	16 005	20 285
Automotive mechanics, including body	9 845	10 461	8 970	8 970	14 703	14 770	14 196	11 588	12 598	12 736	10 236	11 560	11 305	10 935	8 472	19 005
Industrial machinery repairers	11 564	12 375	7 717	9 067	15 589	15 901	15 344	13 457	11 956	12 224	8 725	12 258	14 695	15 484	8 472	19 005
Electronic repairers, communications and industrial equipment	15 478	15 563	13 998	14 589	20 664	20 664	17 214	15 026	12 553	12 888	7 577	6 815	14 693	14 693	1 505	10 117
Heating, air conditioning, and refrigeration mechanics	14 852	14 939	14 012	11 976	17 382	17 214	21 604	16 529	14 270	14 399	13 123	14 505	17 435	17 170	6 157	10 117
Other mechanics and repairers	14 329	14 625	10 765	13 388	16 020	15 980	15 417	16 529	10 730	10 730	10 135	10 478	9 876	10 136	1 505	10 117
Construction trades	15 104	15 545	11 918	11 585	14 665	14 665	13 981	9 455	12 624	12 740	10 061	11 965	11 209	11 304	7 226	12 567
Supervisors, construction occupations	21 813	22 881	5 005	13 961	22 537	23 392	7 085	9 455	12 624	12 740	10 061	11 965	11 209	11 304	7 226	12 567
Carpenters	15 022	15 257	12 220	10 036	16 443	16 443	8 333	10 982	10 312	10 465	5 435	9 198	21 009	21 954	12 505	16 656
Electricians	16 374	17 272	10 640	12 036	16 012	15 801	24 255	6 405	15 778	15 921	5 435	9 198	21 009	21 954	12 505	16 656
Painters, construction and maintenance	10 722	11 397	7 144	4 763	10 833	11 618	6 306	13 155	13 154	13 323	10 332	13 400	7 731	7 857	7 495	4 505
Plumbers, pipefitters, and steamfitters	15 541	15 936	12 687	23 362	14 809	14 709	13 333	13 155	13 154	13 323	10 332	13 400	7 731	7 857	7 495	4 505
Other construction trades	13 722	13 571	15 269	12 482	11 803	13 474	2 378	—	11 430	10 926	14 849	12 156	14 499	15 825	8 005	8 092

Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Extraction occupations—																
Precision production, craft, and repair occupations—Con.																
Precision production occupations	2 005	2 005	1 738	12 719	4 538	2 538	6 892	12 591	17 722	17 722	12 226	12 206	13 449	14 150	8 577	10 712
Precision production occupations	15 018	15 018	11 769	12 875	14 705	14 705	11 771	16 008	16 328	16 328	13 519	11 767	18 566	19 360	11 574	12 408
Supervisors, production occupations	15 605	16 253	7 970	12 875	19 125	19 377	16 543	16 008	18 898	19 293	13 519	11 767	16 563	15 497	24 015	17 027
Precision metalworking occupations	12 754	12 754	10 007	2 007	13 094	13 094	11 044	11 068	18 466	18 208	21 005	10 102	15 579	13 928	24 015	23 005
Tool and die makers	9 051	3 831	18 513	2 845	13 898	14 766	11 003	13 129	18 807	18 807	10 005	4 334	15 579	13 928	24 015	23 005
Mechanists	14 771	10 949	26 097	6 601	14 883	14 883	11 208	15 705	14 104	14 104	10 005	4 334	15 579	13 928	24 015	23 005
Sheet metal workers	7 736	14 205	6 355	13 914	10 144	9 868	11 208	15 705	14 104	14 104	10 005	4 334	15 579	13 928	24 015	23 005
Other precision metal workers	13 235	14 652	8 879	12 007	10 144	9 868	11 208	15 705	14 104	14 104	10 005	4 334	15 579	13 928	24 015	23 005
Precision textile, apparel, and furnishings machine workers	11 560	11 962	8 844	13 012	13 325	13 325	10 881	17 005	12 410	12 410	9 955	10 109	17 804	17 115	7 381	12 045
Precision food production occupations	14 830	15 321	12 844	13 012	14 172	14 394	11 140	17 005	13 916	13 916	10 005	14 347	14 352	14 352	14 352	15 205
Precision food production occupations	14 001	14 379	10 323	9 675	14 479	10 725	20 172	17 005	13 916	13 916	10 005	14 347	14 352	14 352	14 352	15 205
Precision inspectors, testers, and related workers	18 466	19 134	13 605	12 789	18 171	17 978	13 036	18 005	12 506	12 506	9 155	11 252	13 373	13 286	14 005	13 679
Plant and system operators	13 263	13 355	12 068	13 714	13 305	13 036	—	18 005	12 506	12 506	9 155	11 252	13 373	13 286	14 005	13 679
Other precision production occupations	6 905	6 770	7 739	6 790	7 536	7 472	7 822	7 747	6 605	6 605	7 330	6 627	5 871	5 734	6 515	6 311
Operators, fabricators, and laborers	10 463	10 870	10 743	7 561	10 233	10 377	9 894	9 684	12 414	12 071	10 771	11 684	8 734	8 994	7 991	8 739
Machine operators, assemblers, and inspectors	11 326	12 122	10 242	8 326	10 770	10 971	9 688	10 439	12 414	12 071	10 771	11 684	8 734	8 994	7 991	8 739
Machine operators and tenders, except precision	15 176	17 562	—	—	6 407	7 119	—	—	6 905	6 905	—	—	12 862	12 862	8 049	9 605
Metalworking and plastic working machine operators	20 005	20 005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fabricating machine operators, h.e.c.	10 037	10 192	10 289	705	10 442	10 331	10 735	11 143	10 757	10 505	10 694	19 805	7 950	6 175	9 762	7 922
Metal and plastic processing and woodworking machine operators	10 037	10 192	10 289	705	10 442	10 331	10 735	11 143	10 757	10 505	10 694	19 805	7 950	6 175	9 762	7 922
Printing machine operators	15 043	15 043	—	—	6 660	6 660	—	—	8 498	8 498	10 293	11 005	9 116	9 157	10 648	5 813
Textile machine operators	8 391	8 510	—	8 062	7 965	7 965	—	—	7 805	11 911	4 830	12 005	8 724	8 795	7 441	8 774
Textile sewing machine operators	6 584	6 181	7 127	6 005	7 914	7 391	—	10 095	38 643	38 643	—	—	3 188	3 188	10 962	—
Laundering and dry cleaning machine operators	10 056	10 159	9 945	10 159	14 043	14 333	8 818	10 095	12 845	12 845	12 448	—	5 730	5 730	9 005	—
Packaging and filling machine operators	10 273	10 014	10 761	9 908	9 819	9 973	8 792	12 505	13 679	13 679	11 882	12 481	8 915	9 500	6 990	8 471
Food, kind, and oven operators, except food	10 423	10 491	9 680	8 249	11 561	11 761	11 993	10 723	10 980	11 207	10 675	9 534	8 629	8 404	9 284	10 542
Other specified machine operators	12 995	14 526	12 421	8 249	11 561	11 761	11 993	10 723	10 980	11 207	10 675	9 534	8 629	8 404	9 284	10 542
Miscellaneous and not specified machine operators	8 313	8 227	12 583	5 838	9 030	9 389	7 098	10 079	9 807	9 803	10 363	7 531	8 366	9 038	6 483	11 164
Fabricators, assemblers, and hand working occupations	17 137	18 271	11 004	14 358	13 135	13 814	8 367	12 079	12 294	12 387	14 148	9 387	11 970	12 695	9 005	9 232
Welders and cutters	6 506	6 138	12 557	3 736	9 908	10 810	6 965	9 327	10 091	10 091	—	6 005	9 103	10 251	5 879	13 279
Solders and brazers	8 180	8 057	14 182	10 119	7 364	7 529	6 668	8 432	10 912	11 265	9 214	6 653	6 072	5 998	7 285	2 968
Hand working occupations, testers, samplers, and weighers	11 184	12 055	10 856	6 743	10 880	10 498	13 773	8 432	11 219	11 479	12 042	5 138	7 635	7 506	13 895	7 042
Production inspectors, testers, samplers, and weighers	6 153	7 189	—	2 020	6 015	5 778	8 292	3 728	6 689	6 689	—	—	4 999	6 345	—	1 202
Graders and sorters, except agricultural	13 531	14 398	12 552	8 447	15 911	15 714	20 250	10 073	11 455	11 787	12 042	5 138	10 270	10 130	21 615	9 232
Other production inspectors, testers, samplers, and weighers	13 615	14 026	12 391	10 819	15 579	16 056	13 219	13 346	9 580	9 710	8 854	7 793	9 381	9 935	8 907	8 063
Transportation and material moving occupations	14 437	14 906	12 908	11 210	15 406	15 878	12 892	12 611	9 567	9 701	8 813	7 711	9 684	9 954	9 558	7 097
Transportation occupations	14 411	14 906	12 756	11 196	15 405	15 876	12 892	12 598	9 559	9 687	8 852	7 730	9 684	9 954	9 558	7 097
Motor vehicle operators	14 624	15 205	12 592	11 913	15 488	16 086	12 860	12 436	9 999	10 113	9 198	8 165	9 469	9 733	9 445	7 743
Truck drivers	13 176	13 825	12 863	9 917	15 221	15 224	14 693	14 550	12 143	12 339	10 092	6 292	13 138	13 024	19 695	18 005
Driver-sales workers	11 861	10 852	14 298	9 913	14 449	15 140	8 883	11 625	5 615	5 374	6 980	6 575	7 266	7 065	9 904	4 110
Other motor vehicle operators	27 605	14 828	73 605	9 945	17 902	17 902	14 266	21 005	11 012	12 329	4 500	—	10 005	10 005	—	—
Rail and water transportation occupations	11 283	11 491	10 663	9 945	16 567	17 200	14 266	21 005	11 012	12 329	4 500	—	10 005	10 005	—	—
Supervisors, material moving equipment operators	14 504	15 205	12 322	17 005	22 975	22 975	16 815	25 805	16 559	17 038	9 596	9 605	12 991	13 576	12 005	12 174
Material moving equipment operators	22 482	27 047	20 047	17 005	16 093	16 093	—	25 805	13 412	13 412	—	—	12 991	13 576	12 005	—
Crane, hoist and winch operators	5 557	5 557	—	9 750	14 455	17 231	8 905	9 005	16 559	17 038	1 205	3 005	10 005	10 005	—	—
Examiners, grading, and dozer machine operators	11 118	11 326	10 888	9 750	16 479	17 082	14 332	16 831	9 390	9 290	9 897	9 998	8 438	9 373	4 961	12 174
Other material moving equipment operators	5 055	4 886	5 837	5 713	6 472	6 390	6 406	6 962	5 773	5 684	6 710	5 910	3 958	3 793	4 740	4 342
Handlers, equipment cleaners, helpers, and laborers	12 443	11 305	15 005	9 099	17 543	18 297	8 505	—	10 698	10 698	—	—	5 045	5 045	—	—
Supervisors, handlers, equipment cleaners, and laborers, h.e.c.	5 118	5 405	3 640	6 326	5 433	5 398	5 618	7 396	13 548	6 001	6 921	—	2 461	2 461	—	—
Helpers, craft and production	10 264	9 279	17 685	4 307	6 144	6 085	5 970	6 580	5 386	5 326	6 106	5 112	2 782	2 627	3 639	3 064
Construction laborers	4 106	4 013	4 618	4 307	6 144	6 085	5 970	6 580	5 386	5 326	6 106	5 112	2 782	2 627	3 639	3 064
Freight, stock, and material handlers	4 872	4 558	6 219	6 393	6 112	5 487	8 804	6 782	5 710	5 631	6 604	5 853	6 514	6 684	5 858	4 996
Garage and service station occupations, and equipment	7 351	7 221	7 396	7 635	5 619	5 488	5 373	6 643	8 366	8 301	9 830	8 821	7 438	7 537	8 818	8 838
Hand packers and packagers	8 670	8 640	8 809	9 045	12 504	12 917	11 200	11 160	6 643	6 479	7 640	6 854	7 378	7 506	6 876	6 880
Labors, except construction																

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	5 828	5 838	5 821	5 229	6 103	6 082	6 271	6 199	6 989	6 999	6 643	6 568	5 418	5 421	5 265	5 175
Managerial and professional specialty occupations	10 229	10 304	9 383	8 858	9 347	9 375	8 649	9 092	11 986	11 958	12 927	11 532	9 576	9 631	8 023	8 514
Executive, administrative, and managerial occupations	10 343	10 427	9 410	8 955	9 375	9 401	8 655	9 433	11 986	11 978	12 599	11 532	9 576	9 631	8 023	8 514
Officials and administrators, public administration	4 213	4 213	4 505	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	10 843	10 880	9 856	12 201	12 781	12 895	—	16 323	14 673	14 774	9 372	15 551	9 586	9 734	7 504	10 487
Managers, marketing, advertising, and public relations	10 051	10 085	10 011	9 278	8 485	8 552	10 546	7 761	12 141	12 197	20 005	7 426	8 375	8 400	7 625	7 058
Administrators, education and related fields	6 677	6 605	9 005	—	5 383	7 730	3 505	—	1 883	1 883	—	—	8 724	8 724	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	12 568	12 636	11 156	11 789	10 623	10 918	7 809	7 592	11 895	11 820	12 683	16 709	11 807	11 962	11 281	8 583
Managers and administrators, n.e.c.	9 562	9 623	8 983	8 921	9 030	9 072	8 092	9 160	11 965	11 957	9 822	10 808	9 248	9 318	7 000	8 081
Salaries	9 643	9 716	8 983	8 983	9 480	9 536	8 092	10 110	12 207	12 212	8 967	11 552	9 435	9 523	7 254	7 842
Self-employed	5 969	5 820	—	5 290	6 644	6 491	7 499	5 140	8 308	8 109	19 081	842	7 962	7 865	2 399	10 717
Management related occupations	10 601	10 721	9 249	8 273	10 536	10 449	10 878	10 854	10 981	10 908	15 434	11 338	11 668	11 756	9 816	10 753
Accountants and auditors	8 530	8 507	8 161	8 077	9 973	9 840	10 435	9 569	10 901	10 831	15 989	12 284	9 896	9 712	10 769	8 510
Personnel, training, and labor relations specialists	9 846	9 849	9 569	9 101	12 119	12 091	11 531	11 154	10 801	10 824	12 897	13 005	10 128	9 881	11 117	10 220
Buyers and purchasing agents	11 341	11 461	9 890	8 402	10 220	10 159	9 938	12 811	9 851	9 902	—	6 315	12 176	12 289	9 471	11 963
Inspectors and compliance officers	9 716	10 087	3 645	11 005	10 799	9 420	13 755	—	6 315	6 315	—	6 315	8 542	8 542	1 615	—
Other management related occupations	8 485	8 828	6 445	1 841	12 548	12 635	12 596	—	14 529	14 164	17 445	11 342	9 409	9 890	6 505	—
Professional specialty occupations	9 495	9 536	9 148	7 161	8 950	9 007	8 497	6 337	12 121	11 303	16 251	10 525	7 651	7 468	7 769	7 929
Engineers, architects, and surveyors	12 821	12 947	11 005	—	10 543	10 601	—	9 805	8 158	8 858	—	—	9 837	7 042	—	—
Engineers	11 871	12 073	11 005	—	10 543	10 601	—	9 805	8 158	8 858	—	—	9 837	7 042	—	—
Engineers	13 252	12 164	—	—	11 012	11 012	—	—	9 279	9 279	—	—	11 303	7 794	—	—
Civil engineers	1 205	1 205	—	—	2 995	2 995	—	—	9 605	9 605	—	—	—	—	—	—
Electrical and electronic engineers	14 835	14 554	11 005	—	11 645	11 645	—	—	3 805	3 805	—	—	6 774	6 774	—	—
Mechanical engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other engineers	12 369	12 369	—	—	—	—	—	—	12 433	12 433	—	—	16 210	10 005	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	16 534	16 405	16 841	22 005	14 905	14 767	23 005	—	18 620	18 050	28 005	—	12 812	12 500	—	—
Operations and systems researchers and analysts	12 226	12 634	9 930	—	12 829	12 829	—	—	16 861	16 861	—	—	17 969	6 759	—	—
Mathematical scientists	9 925	9 921	10 053	11 053	16 599	16 599	—	—	14 451	14 451	—	—	9 563	7 708	14 862	—
Natural scientists	6 279	6 279	—	—	9 402	10 107	—	—	16 470	4 190	—	—	3 685	3 685	—	—
Chemists, except biochemists	5 258	5 258	—	—	6 303	7 531	—	—	21 525	4 190	—	—	—	—	—	—
Other natural scientists	6 438	6 438	—	—	6 005	6 005	—	—	15 868	4 190	—	—	3 685	3 685	—	—
Health diagnosing occupations	9 480	9 480	—	—	6 005	6 005	—	—	12 219	11 670	12 549	20 005	9 505	9 505	—	—
Health assessment and treating occupations	12 080	12 137	14 641	14 933	14 376	14 164	—	6 455	9 736	9 785	9 005	—	9 505	8 654	—	12 005
Registered nurses	9 295	9 295	—	7 005	12 021	12 021	—	6 455	9 598	9 640	9 005	—	7 582	6 460	—	12 005
Other health assessment and treating occupations	14 000	14 257	14 641	16 419	14 715	14 506	—	6 455	11 519	11 519	—	—	10 067	10 067	—	—
Teachers, except postsecondary	5 926	5 909	8 331	7 406	8 192	8 465	—	505	7 241	7 241	—	—	6 296	5 570	6 538	6 505
Social scientists and urban planners	13 197	13 558	9 354	—	8 237	8 394	1 355	8 105	16 879	16 075	—	—	13 406	8 550	11 005	43 005
Social and recreation workers	5 541	5 993	2 858	—	5 099	5 706	2 005	4 003	13 765	13 765	—	—	786	786	—	—
Lawyers and judges	24 959	24 029	30 113	—	9 435	9 435	—	—	11 110	11 110	—	—	25 793	25 916	25 215	—
Writers, artists, entertainers, and athletes	9 033	9 124	7 697	5 870	7 481	7 540	4 619	6 636	10 630	10 456	—	5 785	7 398	7 398	7 189	5 806
Other professional specialty occupations	13 051	16 479	4 947	—	12 242	12 242	—	—	8 754	8 754	—	—	3 718	3 718	—	—
Technical, sales, and administrative support occupations	5 381	5 370	5 563	4 939	6 017	5 981	6 342	6 228	6 772	6 769	6 635	6 595	4 924	4 911	5 015	4 810
Technicians and related support occupations	10 661	10 837	10 327	12 038	10 862	10 884	9 385	12 717	8 032	7 881	8 936	8 032	10 044	10 051	9 717	9 113
Health technologists and technicians	8 231	8 590	6 205	—	10 355	10 355	—	—	8 005	8 005	—	—	5 422	5 422	—	4 790
Licensed practical nurses	7 661	7 661	—	—	9 119	9 119	—	—	8 005	8 005	—	—	—	—	—	—
Other health technologists and technicians	8 517	9 191	6 205	—	9 119	9 119	—	—	8 731	8 731	—	—	—	—	—	—
Engineering and science technicians	9 942	10 221	11 659	14 445	9 536	9 357	8 808	14 285	9 937	9 265	14 005	—	8 105	5 770	4 790	—
Electrical and electronic technicians	11 633	11 659	11 305	—	11 337	11 228	8 278	18 725	8 193	8 193	—	—	5 422	5 422	—	—
Industrial and mechanical engineering technicians	—	—	—	—	10 005	10 005	—	—	8 193	8 193	—	—	8 105	7 344	10 008	9 105
Drafting and surveying technicians	8 952	9 498	9 283	14 445	9 430	9 151	13 505	5 405	10 840	9 928	—	—	19 698	9 077	12 805	—
Other engineering and science technicians	9 940	9 938	9 791	—	8 856	8 957	7 811	—	10 400	10 154	14 005	—	5 963	5 680	9 643	—
Technicians, except health, engineering, and science	10 979	11 105	10 947	11 678	11 830	11 963	10 275	11 672	7 970	7 840	8 402	8 032	10 359	10 160	11 305	9 105
Airplane pilots and navigators	—	—	—	—	—	—	—	—	22 365	22 365	—	—	11 645	11 641	8 818	15 605
Air traffic controllers and broadcast equipment operators	6 144	6 144	—	—	—	—	—	—	10 738	10 738	—	—	—	—	—	—
Computer programmers	12 014	12 222	11 800	13 259	12 647	12 523	14 219	11 672	10 738	10 738	—	—	14 805	14 969	11 995	15 605
Other technicians, except health, engineering, and science	9 528	9 616	9 434	8 741	9 972	10 582	4 753	—	7 735	7 698	3 188	7 609	5 140	5 151	5 005	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	General merchandise stores					Food, bakery, and dairy stores					Automotive dealers and gasoline stations					Apparel and accessory stores				
	Race			Spanish origin ¹	Total	Race			Spanish origin ¹	Total	Race			Spanish origin ¹	Total	Race			Spanish origin ¹	Total
	Total	White	Black			Total	White	Black			Total	White	Black			Total	White	Black		
Employed females 16 years and over—Con.																				
Technical, sales, and administrative support occupations—Con.																				
Sales occupations	4 932	4 932	5 047	4 390	5 672	5 672	5 626	6 105	5 946	6 490	6 517	5 907	6 227	4 699	4 699	4 697	4 634	4 618		
Supervisors and proprietors, sales occupations	8 142	8 130	8 406	7 515	8 628	8 628	8 626	8 261	8 585	8 809	8 819	7 350	8 367	8 968	8 949	8 798	8 798	8 798		
Salaries	6 013	6 238	6 444	5 591	6 569	6 569	6 568	6 333	6 334	6 541	6 541	5 811	6 227	6 839	6 839	6 819	6 666	6 666		
Self-employed	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975	3 975		
Sales representatives, finance and business services	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589	4 589		
Sales representatives, commodities, except retail	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024	4 024		
Sales workers, retail and personal services	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778	4 778		
Cashiers	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778	5 778		
Other sales occupations, retail and personal services	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556	6 556		
Sales related occupations	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763		
Administrative support occupations, including clerical	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763	7 763		
Supervisors, administrative support occupations	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256	8 256		
Computer equipment operators	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442	8 442		
Secretaries, stenographers, and typists	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130	5 130		
Stenographers and typists	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258	5 258		
Receptionists	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758	5 758		
Other information clerks	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733	5 733		
File clerks	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117	7 117		
Other records processing occupations, except financial	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287	6 287		
Bookkeepers, accounting, and auditing clerks	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057	5 057		
Payroll and timekeeping clerks	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557	6 557		
Other financial records processing occupations	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597	5 597		
Telephone operators	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Mail and message distributing occupations	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Production coordinators and expeditors	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Traffic, shipping, and receiving clerks	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Stock and inventory clerks	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Truck and inventory clerks	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Other material recording, scheduling, and distributing clerks	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Adjusters and investigators	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Date-entry typists	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Other administrative support occupations	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292	5 292		
Service occupations	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872	4 872		
Private household occupations	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464	5 464		
Protective service occupations	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265	5 265		
Guards	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833	10 833		
Other protective service occupations	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726	4 726		
Service occupations, except protective and household	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389	4 389		
Food preparation and service occupations	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623	5 623		
Health service occupations	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940	4 940		
Cleaning and building service occupations, except household	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080	6 080		
Personal service occupations	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017	3 017		
Farming, forestry, and fishing occupations	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810	7 810		
Precision production, craft, and repair occupations	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355	8 355		
Mechanics and repairers	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233	6 233		
Supervisors, mechanics and repairers	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099	9 099		
Automobile mechanics, including body	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512	8 512		
Industrial machinery repairers	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719	11 719		
Electrical machinery, communications and industrial equipment	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400	8 400		
Heating, air conditioning, and refrigeration mechanics	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 117	6 11			

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Precision production occupations.....	4 978	2 705	5 205	—	4 814	3 805	5 655	—	9 229	9 161	—	9 461	6 236	6 311	—	6 176
Precision production occupations.....	7 826	7 826	7 826	7 826	6 357	6 342	6 358	6 769	9 777	9 861	—	14 558	10 050	10 418	—	8 146
Precision production occupations.....	8 917	8 917	8 917	8 917	8 917	8 917	8 917	8 917	8 400	8 917	—	8 400	8 001	8 001	—	11 350
Precision production occupations.....	6 367	6 367	6 367	6 367	6 367	6 367	6 367	6 367	8 102	8 102	—	6 005	5 176	5 176	—	6 377
Precision production occupations.....	5 005	5 005	5 005	5 005	5 005	5 005	5 005	5 005	9 537	9 537	—	6 005	9 457	9 457	—	16 617
Precision production occupations.....	5 666	5 666	5 666	5 666	5 666	5 666	5 666	5 666	5 740	5 740	—	6 165	5 558	5 558	—	5 827
Precision production occupations.....	6 377	6 377	6 377	6 377	6 377	6 377	6 377	6 377	5 272	5 272	—	12 222	9 926	9 926	—	—
Precision production occupations.....	9 954	9 954	9 954	9 954	11 366	11 366	11 366	11 366	9 311	9 311	—	135	9 285	9 285	—	20 117
Precision production occupations.....	10 209	10 209	10 209	10 209	8 784	8 784	8 784	8 784	5 949	5 949	—	—	10 644	9 386	—	—
Precision production occupations.....	7 513	7 513	7 513	7 513	6 221	6 221	6 221	6 221	4 367	4 367	—	4 494	4 817	4 817	—	4 982
Precision production occupations.....	5 122	5 051	5 345	5 360	5 619	5 478	6 260	5 520	8 641	8 291	—	5 221	5 283	5 160	—	5 908
Precision production occupations.....	6 080	5 981	6 205	6 221	8 826	8 826	8 826	8 826	5 777	5 777	—	7 690	5 257	5 100	—	5 134
Precision production occupations.....	5 995	5 895	6 121	6 005	1 335	1 335	1 335	1 335	—	—	—	—	6 775	6 775	—	—
Precision production occupations.....	6 431	6 431	6 431	6 431	4 320	4 320	4 320	4 320	11 005	11 005	—	—	5 098	4 111	—	—
Precision production occupations.....	805	805	805	805	8 893	8 893	8 893	8 893	10 677	10 677	—	—	3 696	3 753	—	5 224
Precision production occupations.....	6 819	6 819	6 819	6 819	8 819	8 819	8 819	8 819	3 439	3 439	—	5 005	8 127	8 282	—	3 680
Precision production occupations.....	6 451	6 451	6 451	6 451	7 255	7 255	7 255	7 255	3 738	3 738	—	—	5 421	5 394	—	5 374
Precision production occupations.....	3 557	3 557	3 557	3 557	8 826	8 826	8 826	8 826	6 585	6 585	—	—	3 330	2 228	—	4 975
Precision production occupations.....	5 751	5 469	3 362	6 775	8 256	7 435	10 217	4 805	9 005	9 005	—	—	7 665	4 643	—	4 837
Precision production occupations.....	4 834	4 180	4 316	4 530	3 591	3 591	4 955	5 590	8 249	8 249	—	10 530	4 441	7 441	—	3 976
Precision production occupations.....	5 897	5 803	6 996	3 498	6 189	5 971	7 484	5 841	9 670	9 670	—	6 113	4 526	4 344	—	5 389
Precision production occupations.....	6 236	6 291	5 863	6 068	4 542	4 427	5 541	5 253	9 050	9 212	—	—	5 067	5 374	—	4 459
Precision production occupations.....	5 461	5 412	5 861	6 236	7 155	7 479	6 182	5 253	7 160	8 276	—	1 565	12 005	12 005	—	—
Precision production occupations.....	17 595	17 595	17 595	17 595	5 600	5 326	7 102	10 253	9 333	9 333	—	1 687	6 017	6 463	—	6 025
Precision production occupations.....	5 651	5 592	5 415	5 398	4 231	4 169	5 020	2 567	9 627	11 632	—	—	5 634	2 953	—	3 093
Precision production occupations.....	5 253	5 206	6 453	6 135	5 566	5 596	6 301	2 714	7 326	6 829	—	—	4 460	5 148	—	5 114
Precision production occupations.....	7 215	7 244	6 675	6 839	5 017	5 065	5 483	2 714	5 774	5 774	—	—	6 189	5 810	—	3 804
Precision production occupations.....	4 508	4 320	5 077	3 265	8 571	8 279	12 738	—	7 623	7 162	—	—	6 404	7 484	—	—
Precision production occupations.....	8 245	8 346	7 388	7 799	7 755	7 889	6 862	7 841	4 921	4 814	—	—	6 404	7 484	—	5 680
Precision production occupations.....	7 482	7 656	7 251	5 549	7 755	7 789	6 862	7 841	4 921	4 814	—	—	6 404	7 484	—	—
Precision production occupations.....	7 091	7 611	5 542	5 141	7 571	7 763	6 463	7 115	4 873	4 787	—	—	6 404	7 484	—	4 833
Precision production occupations.....	6 956	7 455	5 542	4 235	7 579	7 774	6 463	7 115	4 885	4 800	—	—	6 404	7 484	—	4 833
Precision production occupations.....	6 833	7 480	5 157	4 002	7 934	8 041	6 863	8 438	5 010	4 922	—	—	6 404	7 484	—	—
Precision production occupations.....	5 313	5 879	9 036	4 889	10 033	11 123	—	5 562	7 326	6 638	—	—	6 404	7 484	—	—
Precision production occupations.....	8 585	8 494	—	8 889	10 033	11 123	—	5 562	7 326	6 638	—	—	6 404	7 484	—	—
Precision production occupations.....	14 913	14 913	—	17 215	6 855	6 855	—	12 380	7 040	6 124	—	—	6 404	7 484	—	—
Precision production occupations.....	7 658	7 675	8 178	6 052	8 962	8 792	—	12 380	7 040	6 124	—	—	6 404	7 484	—	—
Precision production occupations.....	11 289	11 289	—	—	2 691	2 691	—	—	7 260	3 492	—	—	6 404	7 484	—	—
Precision production occupations.....	7 461	7 441	8 178	6 052	10 363	10 640	—	12 380	7 260	3 492	—	—	6 404	7 484	—	—
Precision production occupations.....	4 811	4 748	5 021	5 178	6 263	6 287	6 189	6 239	4 011	3 954	—	—	6 404	7 484	—	—
Precision production occupations.....	8 535	9 559	5 005	3 055	11 305	11 305	—	—	15 005	15 005	—	—	6 201	6 201	—	—
Precision production occupations.....	5 070	4 139	8 324	—	4 750	4 750	—	—	5 013	4 777	—	—	2 349	2 161	—	—
Precision production occupations.....	5 129	5 129	—	—	575	575	—	—	4 591	4 162	—	—	3 171	3 171	—	—
Precision production occupations.....	4 306	4 281	4 335	4 001	5 171	5 181	5 155	5 204	4 591	4 162	—	—	3 547	3 376	—	4 424
Precision production occupations.....	3 733	3 753	3 774	8 061	4 585	4 784	3 966	4 035	3 872	3 828	—	—	5 732	5 553	—	6 157
Precision production occupations.....	5 304	5 159	5 610	5 882	8 361	8 385	8 302	8 102	6 372	6 147	—	—	4 758	4 714	—	5 144
Precision production occupations.....	6 384	6 568	5 854	6 411	6 176	6 247	5 309	7 679	5 077	5 279	—	—	5 089	4 877	—	4 829

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Eating and drinking places			Other retail trade			Finance, insurance, and real estate, total			Banking and credit agencies		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
Employed males 16 years and over	7 793	8 048	5 679	13 848	14 212	9 393	21 980	23 027	11 392	19 760	20 734	11 230
Managerial and professional specialty occupations	15 948	16 324	11 299	21 016	21 288	14 889	27 021	27 678	15 830	24 988	25 384	16 467
Executive, administrative, and managerial occupations	16 220	16 624	11 530	21 643	21 941	14 397	27 220	27 897	15 655	24 999	25 408	16 052
Officials and administrators, public administration	2 016	2 545	1 492	14 005	14 005	12 268	25 325	25 585	17 061	25 417	24 725	16 889
Financial managers	23 945	24 547	14 692	20 010	20 010	16 645	30 763	31 502	14 405	28 986	29 262	19 944
Managers, marketing, advertising, and public relations	23 844	24 183	15 445	21 070	21 240	16 645	30 763	31 502	14 405	28 986	29 262	19 944
Administrators, education and related fields	17 143	16 335	27 555	21 228	22 081	6 305	30 763	31 502	14 405	28 986	29 262	19 944
Managers, medicine and health	14 191	14 539	11 786	20 388	20 707	16 834	19 349	19 349	12 985	25 081	25 468	16 666
Other specialized managers	16 117	16 508	11 504	22 523	22 864	14 102	34 866	35 587	18 459	30 045	30 567	17 516
Managers and administrators, n.e.c.	15 935	16 388	11 137	23 173	23 527	14 071	34 649	35 367	18 442	30 018	30 541	17 582
Self-employed	16 701	16 896	13 132	18 864	19 083	14 332	38 627	39 362	30 336	32 451	32 746	12 658
Management related occupations	17 115	17 677	11 068	18 306	18 553	12 750	23 052	23 570	14 687	23 061	23 508	14 682
Accountants and auditors	20 554	21 174	11 924	17 949	18 347	10 856	19 190	19 769	13 189	18 045	18 604	12 440
Personnel, training, and labor relations specialists	16 878	17 518	13 210	18 807	19 342	10 960	23 462	24 192	15 958	20 053	20 661	13 515
Buyers and purchasing agents	16 828	17 348	8 159	18 129	18 302	13 637	19 586	20 136	12 519	16 346	16 617	10 601
Inspectors and compliance officers	12 133	13 309	4 633	18 981	19 393	7 805	16 958	17 192	13 656	18 145	18 513	13 275
Other management related occupations	22 557	23 774	15 786	21 001	20 729	25 047	24 814	25 126	15 748	24 349	24 692	15 764
Professional specialty occupations	10 204	10 520	8 140	19 589	19 783	15 886	24 982	25 408	17 650	24 801	24 943	22 208
Engineers, architects, and surveyors	22 449	23 756	13 848	21 564	22 786	13 005	23 384	24 091	15 901	23 539	23 980	19 505
Architects	22 549	23 759	13 848	21 564	22 786	13 005	23 384	24 091	15 901	23 539	23 980	19 505
Engineers	18 096	18 031	20 905	20 594	20 679	20 398	22 889	22 949	16 522	23 831	24 327	20 574
Civil engineers	9 985	9 985	18 031	20 594	20 679	20 398	22 889	22 949	16 522	23 831	24 327	20 574
Electrical and electronic engineers	20 658	20 658	—	19 668	19 668	23 038	24 634	25 000	13 357	28 739	28 528	45 005
Industrial engineers	23 694	23 694	—	21 060	21 072	18 505	19 083	19 352	14 541	24 438	24 555	15 005
Mechanical engineers	23 694	23 694	—	20 098	20 176	18 505	18 718	18 534	27 106	17 103	17 531	14 678
Other engineers	21 195	21 471	14 505	20 931	21 700	15 751	27 288	27 549	27 805	32 034	31 896	26 645
Surveyors and mapping scientists	—	—	—	16 288	16 288	—	15 041	15 065	—	9 525	9 525	—
Computer systems analysts and scientists	21 465	21 465	—	22 069	22 402	18 303	21 381	21 616	16 705	21 654	21 882	16 301
Operations research and analysts	24 454	24 454	—	22 069	22 402	18 303	21 381	21 616	16 705	21 654	21 882	16 301
Mathematicians	19 105	19 105	—	17 316	17 316	11 005	26 918	27 487	15 930	20 558	20 558	24 272
Natural scientists	13 570	13 570	—	16 662	16 662	11 005	26 918	27 487	15 930	20 558	20 558	24 272
Chemists, except biochemists	7 735	7 735	—	21 759	21 759	11 505	25 840	26 404	28 851	23 531	23 120	23 272
Other natural scientists	19 891	19 891	—	15 187	15 187	5 469	28 207	27 749	15 005	30 457	29 347	35 272
Health diagnosing occupations	24 539	24 539	—	31 384	31 827	30 495	28 207	27 749	33 952	33 589	33 391	15 005
Health assessment and treating occupations	23 639	25 480	12 697	21 633	21 769	19 397	17 184	19 429	33 005	37 228	36 346	53 005
Registered nurses	14 005	14 005	—	20 818	20 856	19 397	22 055	22 295	17 405	15 800	15 986	17 405
Other health assessment and treating occupations	23 858	25 777	12 697	21 637	21 774	19 397	18 052	18 295	7 898	15 629	15 320	17 405
Teachers, except postsecondary	11 243	13 630	5 387	7 159	7 251	5 653	18 054	18 201	15 754	17 483	17 640	14 339
Social scientists and urban planners	30 047	31 238	—	25 931	26 354	17 965	29 357	29 277	27 984	30 386	30 386	35 422
Social and recreation workers	6 560	6 560	—	13 345	12 643	14 825	15 282	16 320	15 739	17 230	18 494	9 710
Lawyers and judges	33 564	34 141	27 264	38 232	38 232	—	34 356	34 697	33 787	34 413	34 413	21 872
Writers, artists, entertainers, and athletes	8 534	8 691	18 005	13 344	13 804	10 229	19 687	19 687	13 553	19 302	19 553	18 374
Other professional specialty occupations	12 476	11 886	—	18 290	18 735	13 879	17 331	18 411	6 406	15 568	15 513	14 532
Technical, sales, and administrative support occupations	8 882	9 347	5 975	13 445	13 717	9 594	21 739	22 590	11 567	12 712	13 377	9 503
Technicians, related support occupations	12 490	12 954	5 228	16 268	16 674	12 656	16 643	16 846	14 112	17 175	17 419	14 105
Health technicians and technicians	5 882	6 249	—	16 297	16 674	9 832	14 474	15 149	13 005	9 205	11 541	—
Licensed practical nurses	4 755	4 755	—	16 297	16 674	9 832	14 474	15 149	13 005	9 205	11 541	—
Other health technicians and technicians	5 920	6 305	—	16 297	16 674	9 832	14 474	15 149	13 005	9 205	11 541	—
Engineering and science technicians	11 392	12 073	2 590	13 318	13 486	11 247	16 344	16 901	12 347	16 766	17 544	13 581
Electrical and electronic technicians	12 490	13 840	3 395	13 099	13 248	10 674	16 486	16 782	16 308	16 144	16 346	15 996
Industrial and mechanical engineering technicians	6 957	7 664	2 289	16 721	16 721	—	18 140	18 261	—	19 781	19 781	17 861
Drafting and surveying technicians	10 944	10 962	—	13 313	13 445	14 723	13 712	14 081	9 335	12 052	12 117	12 117
Other engineering and science technicians	15 193	15 193	—	13 862	14 114	11 411	20 583	21 481	11 357	18 598	19 368	13 405
Technicians, except health, engineering, and science	13 631	13 903	8 130	14 640	14 697	13 911	12 804	16 858	14 437	17 269	17 462	14 186
Airplane pilots and navigators	15 977	15 977	—	19 542	19 542	—	22 218	22 132	10 005	23 336	22 747	18 657
Air traffic controllers and broadcast equipment operators	7 964	7 582	13 005	12 414	12 650	8 217	15 689	15 709	15 005	15 641	15 373	15 005
Computer programmers	16 761	16 761	—	15 970	15 895	17 124	16 734	16 850	15 725	17 005	17 406	16 891
Other technicians, except health, engineering, and science	12 867	13 590	2 172	13 237	13 337	10 531	16 294	16 620	11 110	17 243	17 243	12 107

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Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	8 790	9 310	5 321	6 511	13 989	14 229	10 017	10 692	25 539	25 994	14 439	20 770	21 972	22 342	14 023	16 906
Supervisors and proprietors, sales occupations	16 163	16 433	13 165	11 975	18 387	18 580	14 292	14 702	35 047	35 454	17 340	24 201	23 094	23 379	11 767	24 598
Salaried	16 125	16 386	13 093	10 632	19 298	19 540	13 722	14 962	35 007	35 210	17 415	24 201	23 094	23 379	11 767	24 598
Self-employed	25 497	25 970	26 005	15 969	16 758	17 851	15 501	14 715	52 582	53 024	5 868	29 252	46 243	46 243	15 888	18 483
Sales representatives, finance and business services	5 543	5 853	3 490	5 248	14 372	14 586	13 755	13 789	25 440	25 887	14 533	20 880	28 116	28 116	8 957	10 314
Sales workers, retail and personal services	4 486	4 913	3 502	4 971	11 572	12 058	8 032	8 215	17 787	17 742	8 817	13 048	16 435	17 683	8 957	10 314
Other sales occupations, retail and personal services	7 508	7 757	4 547	5 351	15 442	15 332	9 113	9 574	15 758	15 955	8 912	17 407	16 435	17 683	8 957	10 314
Sales related occupations	12 557	15 328	4 415	21 605	16 798	17 156	7 105	6 973	16 718	16 984	8 701	17 407	16 435	17 683	8 957	10 314
Administrative support occupations, including clerical	8 885	9 080	8 173	6 537	9 209	9 389	8 290	8 076	13 461	14 199	9 615	10 180	11 331	11 833	9 225	9 774
Supervisors, administrative support occupations	12 801	13 275	9 905	12 979	15 138	15 435	12 321	13 459	20 263	20 782	15 050	15 133	17 977	18 380	14 760	14 424
Computer equipment operators	13 615	13 133	14 766	14 605	12 720	12 815	13 321	12 382	12 878	13 306	11 018	11 874	11 954	12 333	10 102	11 529
Secretaries, stenographers, and typists	10 974	11 907	6 453	13 505	12 936	13 060	11 025	8 109	12 378	13 102	9 196	7 985	12 768	13 817	9 099	8 595
Secretaries	11 321	12 213	6 453	13 505	14 942	15 073	12 411	11 295	14 015	14 499	11 020	7 985	13 998	14 915	9 939	7 429
Stenographers and typists	4 524	5 023	—	—	7 488	7 211	9 668	5 228	7 793	7 745	7 552	3 370	8 949	8 160	9 208	9 518
Receptionists	6 148	3 863	—	—	7 848	8 203	4 540	1 975	8 288	7 721	11 901	3 370	8 949	8 160	9 208	9 518
Other information clerks	6 437	6 202	9 060	502	7 744	8 125	5 757	6 590	12 602	13 051	9 807	10 462	13 146	13 566	10 831	10 429
File clerks	13 265	19 315	6 005	5 225	5 225	5 637	3 942	1 382	6 266	6 272	5 955	6 290	6 880	6 745	6 358	8 132
Other records processing occupations, except financial	5 327	5 445	4 350	5 562	8 834	9 044	7 392	8 034	12 970	13 677	9 477	9 928	11 090	11 514	9 477	8 971
Bookkeepers, accounting, and auditing clerks	9 910	9 909	10 131	7 966	10 365	10 376	9 492	8 919	11 839	12 377	9 525	9 904	10 938	11 435	8 749	9 561
Payroll and timekeeping clerks	11 282	12 502	7 945	7 421	10 407	11 968	2 694	8 172	10 811	11 469	9 194	8 323	10 470	11 646	8 749	8 275
Other financial records processing occupations	10 449	10 451	14 557	10 871	10 719	11 316	4 926	7 203	10 318	11 035	8 177	7 663	8 720	9 289	7 703	7 474
Telephone operators	3 340	2 024	10 295	2 625	7 850	8 066	5 375	6 934	8 933	9 336	8 126	—	11 519	13 705	6 917	7 198
Mail and message distributing occupations	5 533	5 322	5 322	5 321	5 701	5 423	7 894	5 221	7 038	7 117	10 053	6 679	7 047	7 003	6 917	7 198
Production coordinators and expeditors	5 356	5 331	4 205	5 321	10 152	10 256	8 925	7 980	13 262	14 384	10 053	11 096	11 936	12 800	10 495	11 440
Traffic, shipping, and receiving clerks	9 977	9 755	7 473	8 917	8 554	8 519	8 999	7 757	8 894	8 976	8 546	8 990	8 921	9 105	8 354	9 285
Warehouse and inventory clerks	7 112	6 406	8 693	8 435	6 140	6 101	6 496	6 843	8 978	9 063	8 634	9 790	8 359	8 423	8 318	9 332
Order and inventory clerks, scheduling, and distributing clerks	6 665	6 482	8 500	8 435	6 140	6 101	6 496	6 843	8 978	9 063	8 634	9 790	8 359	8 423	8 318	9 332
Administrative and clerical occupations, except household	15 135	15 556	7 528	4 276	12 277	12 537	9 358	10 267	11 869	12 661	7 577	9 365	13 393	14 293	6 134	14 763
Door-entry clerks	7 215	7 215	—	3 305	8 910	9 144	10 086	9 395	16 354	16 681	12 520	12 993	13 643	13 794	12 575	11 560
Other administrative support occupations	8 605	9 115	6 957	10 157	8 673	8 895	6 505	7 219	9 985	10 033	9 865	10 026	9 110	8 790	9 342	8 906
Service occupations	5 149	5 063	4 657	5 845	6 628	6 693	6 418	6 722	8 752	8 858	8 483	8 965	9 441	9 562	9 309	8 758
Private household occupations	5 175	5 036	5 307	6 054	9 207	9 538	8 360	7 546	9 718	9 832	9 515	8 817	10 682	10 904	10 040	9 752
Guards	5 054	4 987	4 666	6 054	8 545	8 717	8 311	6 914	9 400	9 453	9 417	8 817	10 418	10 591	9 941	9 756
Other protective service occupations	21 876	31 005	25 155	16 409	16 409	17 120	9 902	17 505	15 403	16 129	11 686	11 533	17 246	17 925	13 908	9 005
Service occupations, except protective and household	5 149	5 063	4 657	5 845	6 210	6 236	6 073	6 630	8 534	8 616	9 295	8 984	10 365	10 569	8 946	8 095
Food preparation and service occupation	5 168	5 080	4 664	5 845	6 865	7 206	5 250	6 719	8 314	8 616	9 295	8 984	10 365	10 569	8 946	8 095
Health service occupations	7 599	7 628	6 596	5 453	5 477	5 776	5 440	6 832	10 950	11 345	8 535	7 068	8 569	8 946	8 346	8 545
Cleaning and building service occupations, except household	4 657	4 583	4 514	5 404	5 876	5 798	6 062	6 517	8 494	8 530	7 359	8 986	7 854	8 239	9 031	8 048
Personal service occupations	5 203	5 293	4 412	4 416	8 180	8 247	7 159	8 460	9 239	9 833	7 359	9 480	12 396	17 936	4 924	4 005
Farming, forestry, and fishing occupations	6 519	6 460	6 339	7 329	7 542	7 815	5 674	5 837	7 764	7 941	7 162	6 983	6 746	7 109	5 623	9 368
Precision production, craft, and repair occupations	10 380	10 649	8 924	9 097	12 780	12 964	10 266	10 990	13 216	13 730	10 924	10 762	16 180	16 598	12 308	15 412
Mechanics and repairers	11 794	11 918	11 337	10 571	11 718	11 814	10 067	10 291	15 296	16 272	10 494	12 335	14 210	14 384	12 005	15 616
Supervisors, mechanics and repairers	16 956	16 754	19 630	20 005	15 566	15 700	10 767	12 111	15 296	16 610	10 909	13 320	17 460	17 606	12 005	15 616
Automobile mechanics, including body	11 658	12 284	355	10 816	11 426	11 606	9 563	8 699	12 595	12 694	11 758	13 071	11 209	11 448	9 102	16 041
Industrial machinery repairers	10 855	10 933	10 821	10 816	12 913	13 005	11 809	8 802	11 115	11 128	10 797	11 418	13 485	13 774	9 102	16 041
Electronic repairers, communications and industrial equipment	12 668	8 259	45 005	—	11 058	11 179	8 796	10 310	12 782	12 848	8 115	19 245	12 743	13 017	10 005	—
Heating, air conditioning, and refrigeration mechanics	13 892	14 381	18 005	12 135	14 646	14 818	12 022	10 802	13 627	13 728	10 728	13 426	14 382	14 099	14 997	12 870
Other mechanics and repairers	11 092	11 330	9 388	9 519	11 298	11 363	10 029	10 387	11 481	11 720	9 914	12 170	14 757	14 974	13 045	15 803
Construction trades	10 619	10 775	9 912	8 049	12 337	12 504	10 302	10 752	12 039	12 585	10 134	9 075	16 005	16 557	8 830	10 689
Supervisors, construction occupations	21 846	21 985	9 043	16 548	17 307	17 643	9 959	13 865	19 354	20 240	12 546	15 031	16 939	16 929	16 191	18 837
Carpenters	8 449	8 679	6 409	4 403	11 396	11 547	8 843	9 374	10 750	11 199	8 633	8 466	14 335	15 060	7 330	14 342
Electricians	10 960	11 083	9 778	12 770	13 441	13 764	13 350	10 942	15 679	15 912	14 717	12 681	18 921	18 796	24 588	12 874
Painters, construction and maintenance	6 959	6 632	10 447	6 273	9 261	9 362	8 323	8 692	8 323	8 323	8 577	11 253	10 743	11 749	1 338	11 005
Plumbers, pipefitters, and steamfitters	14 800	13 801	13 971	11 275	12 899	13 106	10 401	12 553	11 562	11 685	12 142	9 058	13 071	15 749	1 338	11 005
Other construction trades	8 848	8 061	14 416	—	12 520	12 676	10 697	11 027	10 346	10 373	10 530	11 570	12 941	13 522	6 755	14 157

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1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Eating and drinking places			Other retail trade			Finance, insurance, and real estate, total			Banking and credit agencies		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
Employed males 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extrusive occupations	9 737	10 048	8 279	14 904	17 902	5 436	19 406	19 714	23 005	18 257	18 257	—
Precision production occupations	12 893	13 067	12 473	17 325	17 431	12 005	17 780	18 397	14 374	18 276	18 276	18 756
Supervisors, production occupations	11 933	11 980	12 338	17 325	17 431	12 005	20 133	20 769	16 776	19 402	20 419	19 433
Precision metalworking occupations	—	—	—	12 338	12 431	10 538	20 133	20 769	16 776	19 402	20 419	19 433
Tool and die makers	—	—	—	12 338	12 431	10 538	20 133	20 769	16 776	19 402	20 419	19 433
Machinists	8 533	8 359	10 005	12 400	13 157	11 567	9 409	9 409	8 165	—	—	8 583
Sheet metal workers	18 061	19 802	16 005	12 400	13 157	11 567	9 409	9 409	8 165	—	—	8 583
Other precision metal workers	13 587	13 164	16 005	12 400	13 157	11 567	9 409	9 409	8 165	—	—	8 583
Precision textile, apparel, and furnishings machine workers	9 603	9 603	—	12 400	13 157	11 567	9 409	9 409	8 165	—	—	8 583
Precision food production occupations	7 624	7 800	6 579	12 416	12 416	9 395	12 416	12 416	12 416	12 416	12 416	—
Precision inspectors, testers, and related workers	12 887	15 005	9 005	15 931	17 524	9 395	15 259	16 434	16 235	22 973	22 983	22 934
Plant and system operators	11 126	13 082	4 447	17 274	17 527	12 728	16 296	16 734	13 427	16 985	16 936	13 005
Other precision production occupations	7 680	8 944	—	13 307	13 448	9 185	16 137	19 070	28 755	15 525	15 525	28 755
Operators, fabricators, and laborers	6 517	6 568	6 302	8 548	8 673	7 968	10 250	10 668	9 611	9 808	10 118	9 134
Machine operators, assemblers, and inspectors	5 962	6 251	4 840	9 289	9 524	8 265	12 315	12 969	11 659	11 880	12 588	12 463
Machine operators and tenders, except precision	5 620	5 724	4 807	9 710	10 031	8 368	12 246	12 844	11 810	12 358	13 059	12 626
Metalworking and plastic working machine operators	7 509	7 681	—	11 735	13 010	10 989	10 549	14 308	9 138	7 211	7 465	10 087
Fabricating machine operators, n.e.c.	—	—	—	11 735	13 010	10 989	10 549	14 308	9 138	7 211	7 465	10 087
Metal and plastic processing and woodworking machine operators	—	—	—	11 735	13 010	10 989	10 549	14 308	9 138	7 211	7 465	10 087
Printing machine operators	12 215	5 784	5 392	9 321	9 695	7 175	10 650	9 930	9 552	15 524	13 495	18 205
Textile machine operators	8 423	4 495	30 685	10 485	10 934	8 183	11 311	11 737	11 732	10 767	10 767	11 833
Textile sewing machine operators	5 392	5 392	—	7 077	7 787	9 409	19 450	21 413	9 522	15 796	15 796	—
Laundry and dry cleaning machine operators	—	—	—	8 186	7 644	6 444	18 005	18 005	11 685	—	—	—
Packaging and filling machine operators	3 478	3 416	148	7 490	6 444	6 389	7 063	6 673	7 052	9 593	9 593	—
Furnace, kiln, and oven operators, except food	8 652	6 789	12 005	12 352	12 468	15 545	25 698	25 698	14 732	10 630	10 398	16 148
Other specified machine operators	5 019	4 995	4 867	12 352	12 468	15 545	11 501	11 592	10 685	15 707	18 079	14 284
Miscellaneous and not specified machine operators	5 765	6 172	4 884	10 110	10 380	9 334	13 840	15 702	10 357	15 707	18 079	14 284
Fabricators, assemblers, and hand working occupations	6 351	7 229	4 246	8 436	8 565	7 779	11 591	12 524	9 903	11 499	12 405	15 124
Welders and cutters	8 313	10 455	1 963	12 099	12 430	11 020	13 105	14 752	8 082	14 486	14 486	17 268
Solders and brazers	—	—	—	10 133	10 438	9 213	10 693	12 485	10 693	10 693	12 485	9 715
Assemblers	5 403	6 098	2 938	9 014	8 027	7 106	11 748	12 278	12 317	11 294	11 948	8 695
Hand working occupations	6 478	6 701	5 772	7 904	7 957	7 142	8 911	9 001	12 058	9 506	9 838	10 103
Production inspectors, testers, samplers, and weighers	10 524	12 036	8 135	9 770	10 040	9 077	13 316	14 061	13 594	8 492	8 756	7 843
Graders and sorters, except agricultural	826	1 341	105	8 195	8 332	7 593	7 758	7 323	10 457	6 489	6 848	7 843
Other production inspectors, testers, samplers, and weighers	11 665	13 128	9 960	11 678	12 074	11 152	14 953	15 396	18 393	12 466	12 593	—
Transportation and material moving occupations	7 228	7 218	7 615	10 081	10 273	8 871	10 717	11 210	9 371	9 221	9 438	8 995
Transportation occupations	7 173	7 161	7 577	9 937	10 134	8 828	10 274	10 702	8 955	9 028	9 267	8 421
Motor vehicle operators	6 161	7 147	7 577	9 937	10 134	8 828	10 274	10 702	8 955	9 028	9 267	8 421
Truck drivers	6 664	6 575	7 696	9 934	10 132	8 828	10 090	10 469	8 876	8 974	9 220	8 500
Driver-sales workers	11 173	11 399	8 237	9 627	9 782	9 268	11 610	12 344	9 342	10 631	11 497	8 559
Other motor vehicle operators	6 354	6 501	6 324	11 794	11 905	10 570	12 139	13 158	4 505	10 631	13 017	13 505
Rail and water transportation occupations	14 618	14 618	—	11 328	11 861	8 869	13 300	13 193	9 200	7 476	7 206	8 611
Material moving equipment operators	11 291	13 094	8 236	11 416	11 733	9 235	23 077	23 332	19 003	20 115	20 750	19 005
Supervisors, material moving equipment operators	10 276	10 276	—	11 416	11 733	9 235	23 077	23 332	19 003	20 115	20 750	19 005
Crane, hoist, and winch operators	10 224	10 224	—	11 416	11 733	9 235	23 077	23 332	19 003	20 115	20 750	19 005
Excavating, grading, and dozer machine operators	13 058	13 058	—	15 447	16 218	11 890	15 623	13 487	30 425	16 439	14 502	17 820
Other material moving equipment operators	11 328	14 024	8 236	15 447	16 218	11 890	15 623	13 487	30 425	16 439	14 502	17 820
Handlers, equipment cleaners, helpers, and laborers	5 116	5 046	5 263	5 915	5 832	6 515	8 557	8 797	8 728	7 449	7 416	5 931
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	12 312	12 312	—	13 405	13 405	—	14 917	16 003	7 621	19 129	19 651	15 005
Helpers, craft and production	5 784	6 346	2 666	5 405	5 273	6 264	7 046	6 837	9 414	6 368	5 314	6 837
Construction laborers	9 737	10 240	8 268	9 675	10 072	7 747	10 830	11 433	9 414	13 068	13 683	13 091
Freight, stock, and material handlers	4 771	4 709	5 412	4 471	4 016	5 543	6 983	6 667	7 989	4 577	4 536	3 670
Garage and service station occupations, and equipment cleaners	4 039	3 971	3 862	6 213	6 716	6 213	7 791	7 759	7 418	5 792	4 350	7 803
Hand packers and packagers	5 508	4 648	5 880	6 581	6 349	7 181	6 616	6 561	5 445	6 536	6 351	6 930
Laborers, except construction	5 110	5 084	4 964	7 434	7 457	7 433	8 489	8 743	8 885	7 470	7 389	6 117

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	3 999	3 972	4 007	4 031	5 791	5 758	6 278	5 648	8 900	8 968	8 218	8 192	8 420	8 461	8 002	8 044
Managerial and professional specialty occupations	8 198	8 122	7 640	8 068	8 632	8 590	9 241	8 248	12 171	12 123	11 513	11 185	12 560	12 618	11 755	11 931
Executive, administrative, and managerial occupations	8 742	8 708	7 698	8 585	9 735	9 740	9 849	8 515	12 077	12 077	11 460	11 105	12 509	12 568	11 679	11 887
Officials and administrators, public administration	10 242	10 226	9 201	10 035	11 735	11 728	9 530	7 263	6 733	6 547	10 925	10 075	8 075	8 075	—	—
Financial managers	12 437	12 537	9 201	11 025	13 035	13 028	9 530	8 866	13 446	13 446	12 635	12 063	13 227	13 269	12 582	12 027
Managers, marketing, advertising, and public relations	11 775	11 800	12 449	8 458	10 241	10 273	10 833	8 866	17 162	17 338	12 163	16 505	14 957	15 104	10 264	17 294
Administrators, education and related fields	9 702	10 604	—	23 005	12 335	12 150	13 605	—	11 696	11 502	16 005	10 005	13 885	13 573	22 005	10 005
Managers, medicine and health	8 569	8 648	7 290	7 004	11 381	11 395	11 190	9 625	8 870	8 859	—	9 659	14 909	14 927	14 577	12 874
Other specified managers	8 212	8 204	7 699	8 024	9 494	9 511	9 042	8 228	13 490	13 490	12 604	12 342	13 000	13 091	11 805	13 268
Managers and administrators, n.e.c.	8 370	8 367	7 838	7 797	10 337	10 373	9 475	8 840	13 576	13 576	12 604	12 535	13 018	13 110	11 805	13 299
Self-employed	7 754	7 725	7 097	8 513	6 283	6 231	9 475	5 402	9 248	9 299	8 175	5 889	8 178	8 312	—	5 110
Management related occupations	8 481	8 486	7 416	8 870	9 483	9 441	10 389	8 912	11 896	11 933	11 315	11 396	11 931	11 971	11 226	11 426
Accountants and auditors	9 592	9 349	9 370	11 168	11 495	11 483	9 883	8 494	10 925	10 901	10 610	10 489	10 756	10 746	10 403	10 479
Personal, training, and labor relations specialists	7 402	7 442	6 532	7 497	9 299	9 268	10 889	7 672	12 925	12 903	13 091	12 988	12 837	12 707	12 707	12 210
Buyers and purchasing agents	9 406	9 572	9 256	5 562	9 299	9 268	10 889	5 403	11 421	11 439	10 946	12 258	11 314	11 298	12 718	12 481
Inspectors and compliance officers	5 184	4 361	2 535	—	9 035	9 523	8 119	5 403	10 447	10 554	9 873	13 424	13 823	13 160	16 107	20 005
Other management related occupations	8 788	7 005	—	7 005	8 604	8 499	9 434	—	12 190	12 229	11 420	11 507	12 155	12 195	11 331	11 588
Professional specialty occupations	6 808	6 762	6 530	8 418	7 210	7 112	8 263	7 944	13 153	13 219	11 933	12 263	13 416	13 381	13 001	12 853
Engineers, architects, and surveyors	7 676	7 651	—	17 995	10 088	11 070	11 880	29 031	13 251	13 484	13 523	9 016	13 832	14 217	9 962	—
Architects	9 773	12 577	—	17 995	10 923	11 040	3 915	34 187	13 371	13 331	—	—	13 371	14 217	—	—
Engineers	6 508	6 508	—	—	11 489	11 489	20 745	10 125	13 221	13 345	13 523	9 016	13 458	14 146	9 962	—
Civil engineers	2 289	2 289	—	—	11 489	11 489	20 745	—	13 221	13 345	13 523	—	13 458	14 146	—	—
Electrical and electronic engineers	16 005	16 005	—	—	11 706	11 759	—	10 125	12 555	12 685	12 335	8 732	11 797	12 468	9 962	—
Mechanical engineers	5 748	5 748	—	—	30 594	30 594	—	—	14 848	14 848	21 005	—	16 981	16 981	—	—
Other engineers	12 505	12 505	—	—	9 812	9 812	—	—	14 533	14 533	—	—	15 325	15 325	—	—
Surveyors and mapping scientists	—	—	—	—	5 655	5 655	—	—	13 780	13 780	—	—	—	—	—	—
Computer systems analysts and scientists	16 706	16 706	—	—	15 736	15 750	15 075	6 961	16 657	16 790	15 510	17 516	16 901	17 044	15 664	17 258
Operations and systems researchers and analysts	20 005	20 005	—	—	16 375	15 991	—	—	15 052	15 011	14 852	13 802	14 658	14 638	13 525	13 874
Mathematical scientists	8 923	8 923	—	—	12 609	12 985	12 272	10 626	13 633	13 799	12 494	11 768	12 173	12 437	11 795	10 890
Natural scientists	5 539	7 430	5 410	—	6 925	6 831	5 566	16 369	11 756	11 070	15 382	9 005	11 115	10 508	16 859	—
Chemists, except biochemists	5 228	1 530	6 159	—	8 512	8 705	5 005	16 369	12 632	11 166	13 386	9 005	10 275	10 353	9 835	—
Other natural scientists	6 858	7 838	5 023	—	6 583	6 417	5 735	16 369	11 217	11 019	14 080	9 005	10 473	10 569	23 005	—
Health diagnosing occupations	12 005	10 537	6 624	—	9 920	9 909	8 005	7 921	15 116	14 264	9 147	13 494	21 632	23 277	—	9 020
Health assessment and treating occupations	10 086	10 377	—	—	11 436	11 165	12 884	11 850	11 038	10 774	11 877	17 073	11 551	11 502	12 811	7 683
Registered nurses	9 439	10 194	—	—	11 531	11 371	10 813	16 005	11 208	10 918	12 282	17 249	11 712	11 710	12 585	7 683
Other health assessment and treating occupations	10 137	10 568	6 624	—	11 434	11 160	13 007	11 812	9 426	9 356	9 513	11 005	9 877	9 210	13 632	—
Teachers, except postsecondary	6 084	6 375	6 839	6 914	3 938	3 877	7 802	4 591	11 178	10 601	15 145	5 064	11 343	11 109	15 727	10 005
Social scientists and urban planners	12 756	12 879	4 135	—	12 444	12 387	12 736	11 449	14 094	13 971	14 077	15 598	13 982	13 693	13 547	19 318
Social and recreation workers	6 759	5 688	5 75	9 922	5 597	5 661	5 191	—	8 884	9 157	8 416	7 628	8 208	8 667	6 080	4 309
Lawyers and judges	16 375	16 375	—	—	17 799	17 799	—	—	16 421	16 589	15 088	10 668	17 264	17 234	21 354	10 292
Writers, artists, entertainers, and athletes	6 095	6 025	6 729	8 069	6 340	6 341	5 959	6 389	11 258	11 355	10 012	9 132	11 355	11 426	10 794	10 061
Other professional specialty occupations	10 409	6 023	—	—	7 711	8 010	6 855	3 255	11 738	11 955	10 695	11 102	11 888	11 484	13 781	6 005
Technical, sales, and administrative support occupations	3 842	3 955	3 070	3 430	5 356	5 317	6 045	5 365	8 376	8 411	7 990	7 898	7 572	7 560	7 601	7 494
Technicians and related support occupations	9 002	9 318	5 977	7 319	8 556	8 534	8 818	7 333	10 869	10 813	11 091	10 047	11 812	11 709	11 969	11 197
Health technicians and technicians	8 122	8 531	6 108	9 938	5 999	5 936	6 681	8 864	9 489	9 489	9 489	12 459	9 874	9 874	9 843	13 114
Licensed practical nurses	5 768	8 951	2 849	—	5 002	3 867	8 980	8 005	7 501	7 132	9 282	10 188	9 758	9 792	9 624	8 605
Other health technicians and technicians	9 506	8 336	9 196	17 165	6 164	6 213	4 457	5 039	10 733	10 917	9 899	15 531	10 917	10 917	10 376	21 005
Engineering and science technicians	8 851	9 412	4 005	—	7 699	7 642	8 153	6 544	10 116	10 098	11 031	8 535	10 719	10 722	10 924	7 225
Electrical and electronic technicians	8 877	8 877	—	—	8 964	9 629	7 139	5 298	9 914	9 776	11 009	7 889	10 969	10 969	13 398	7 225
Industrial and mechanical engineering technicians	—	—	—	—	11 952	11 952	—	—	9 911	9 651	14 055	13 705	11 122	10 727	14 055	13 705
Drafting and surveying technicians	—	—	—	—	6 399	6 282	6 005	4 651	9 746	9 846	9 727	7 718	9 327	9 809	7 338	9 525
Other engineering and science technicians	10 070	10 735	4 005	—	7 953	7 749	9 045	18 205	10 610	10 644	11 577	7 090	11 037	10 969	11 797	11 565
Technicians, except health, engineering, and science	9 559	9 553	8 705	3 172	10 176	10 166	10 766	9 874	11 003	10 939	11 208	10 215	11 978	11 978	12 164	11 678
Airplane pilots and navigators	—	—	—	—	15 042	15 042	—	23 675	9 255	9 255	—	—	10 005	10 005	—	—
Air traffic controllers and broadcast equipment operators	—	—	—	—	7 128	7 128	—	—	7 985	7 985	8 411	9 242	8 115	7 712	8 179	—
Computer programmers	12 116	12 270	8 705	6 765	11 565	11 593	10 905	8 948	12 900	12 960	12 172	12 260	13 055	12 936	13 971	13 760
Other technicians, except health, engineering, and science	7 684	7 684	—	6 605	8 113	8 083	10 005	8 186	9 484	9 412	10 231	8 928	9 866	9 611	10 952	8 998

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	3 161	3 194	2 868	2 982	4 811	4 770	5 464	4 880	11 064	11 117	9 426	10 365	8 823	8 950	7 874	7 528
Supervisors and proprietors, sales occupations	8 291	8 079	10 324	6 348	7 892	7 876	8 690	7 747	15 778	15 982	12 551	12 055	12 289	12 392	10 579	15 794
Supervisors and proprietors, sales occupations	9 535	9 794	10 744	6 309	9 250	9 194	8 744	8 373	15 045	15 254	12 551	12 055	12 289	12 392	10 579	15 794
Salaried	7 747	7 593	9 405	6 363	7 581	7 523	8 592	6 932	20 748	20 744	9 808	11 008	10 776	10 826	10 229	10 537
Self-employed	9 686	9 601	10 359	1 503	5 030	4 704	8 693	7 469	6 796	6 796	—	—	3 255	3 255	—	—
Sales representatives, finance and business services	2 984	3 004	2 748	2 918	4 350	4 295	5 175	4 580	7 684	7 787	7 011	6 517	7 749	7 876	6 996	6 269
Sales representatives, commodities, except retail	2 983	3 011	2 748	2 918	4 350	4 295	5 175	4 580	7 684	7 787	7 011	6 517	7 749	7 876	6 996	6 269
Sales workers, retail and personal services	2 983	3 011	2 748	2 918	4 350	4 295	5 175	4 580	7 684	7 787	7 011	6 517	7 749	7 876	6 996	6 269
Cashiers	2 987	2 952	3 246	3 109	4 416	4 367	5 304	4 710	7 201	7 433	4 404	6 374	7 096	7 241	5 761	6 038
Other sales occupations, retail and personal services	2 987	2 952	3 246	3 109	4 416	4 367	5 304	4 710	7 201	7 433	4 404	6 374	7 096	7 241	5 761	6 038
Sales related occupations	6 446	6 499	5 301	6 470	6 521	6 494	7 073	6 420	7 753	7 738	7 812	7 584	7 511	7 497	7 558	7 473
Administrative support occupations, including clerical	8 223	8 092	7 850	7 820	9 131	9 093	9 532	8 184	11 896	11 893	11 907	11 267	11 310	11 315	11 724	11 002
Supervisors, administrative support occupations	8 223	8 092	7 850	7 820	9 131	9 093	9 532	8 184	11 896	11 893	11 907	11 267	11 310	11 315	11 724	11 002
Computer equipment operators	7 428	7 375	7 032	7 032	7 814	7 872	7 741	7 741	8 528	8 456	8 696	8 212	8 283	8 132	8 785	8 080
Secretaries, stenographers, and typists	7 236	7 267	6 886	6 483	6 872	6 849	7 887	6 019	7 792	7 789	7 642	7 851	8 444	8 492	7 724	8 488
Secretaries	4 374	4 387	4 387	4 387	5 155	5 120	6 341	4 341	6 068	6 043	6 279	6 163	8 771	8 762	8 505	8 948
Stenographers and typists	4 423	4 583	3 711	3 126	5 020	4 927	6 316	4 997	6 508	6 416	6 789	6 951	6 647	6 646	6 651	6 956
Receptionists	4 423	4 583	3 711	3 126	5 020	4 927	6 316	4 997	6 508	6 416	6 789	6 951	6 647	6 646	6 651	6 956
Other information clerks	3 232	3 259	3 443	1 255	5 201	5 083	5 585	5 235	7 974	7 736	8 193	7 764	8 025	7 978	7 252	5 256
File clerks	4 631	4 612	1 985	3 937	4 424	4 295	5 382	4 446	5 032	4 944	5 454	4 926	4 994	4 874	5 300	5 154
Other records processing occupations, except financial	2 931	3 101	1 613	3 849	5 420	5 759	6 965	5 603	8 245	8 264	8 234	4 926	8 043	8 028	8 355	8 342
Bookkeepers, accounting, and auditing clerks	6 762	6 724	6 946	6 414	6 776	6 760	7 344	7 934	7 915	7 897	7 934	7 686	7 482	7 458	7 643	7 188
Payroll and timekeeping clerks	6 543	6 492	7 553	7 020	8 149	8 103	8 360	8 376	9 121	9 189	8 804	8 959	8 800	8 771	8 978	7 780
Other financial records processing occupations	6 168	6 168	6 579	6 579	6 080	6 007	6 723	6 694	7 480	7 477	7 433	7 477	6 462	6 470	7 746	6 350
Telephone operators	4 309	4 309	4 775	3 149	6 008	5 982	6 257	6 257	6 917	6 917	6 917	6 917	6 917	6 917	6 917	6 917
Mail and message distributing occupations	3 864	4 020	2 398	2 398	5 107	4 906	6 472	5 262	5 567	5 546	5 676	5 676	5 567	5 546	5 676	5 676
Production coordinators and expeditors	3 272	3 456	2 233	2 612	6 308	6 203	6 742	5 672	8 671	8 613	9 680	8 671	8 671	8 613	9 680	8 671
Traffic, shipping, and receiving clerks	6 077	7 545	6 716	—	6 308	6 173	6 197	6 188	7 576	7 576	7 576	7 576	7 576	7 576	7 576	7 576
Stock and inventory clerks	5 511	5 008	8 555	8 760	5 656	5 651	5 603	6 013	7 656	7 656	7 656	7 656	7 656	7 656	7 656	7 656
Other material recording, scheduling, and distributing clerks	4 007	4 304	2 539	4 953	6 570	6 437	6 991	5 113	7 353	7 353	7 353	7 353	7 353	7 353	7 353	7 353
Adjusters and investigators	5 238	5 290	5 563	2 712	7 068	7 083	7 939	6 807	7 412	7 412	7 412	7 412	7 412	7 412	7 412	7 412
Data-entry keyers	7 588	7 244	9 195	6 142	7 068	6 865	8 164	7 462	7 462	7 462	7 462	7 462	7 462	7 462	7 462	7 462
Other administrative support occupations	5 568	5 652	4 505	6 547	5 617	5 578	6 022	5 770	6 965	6 928	7 249	6 921	6 854	6 822	7 095	6 844
Service occupations																
Private household occupations	3 572	3 515	3 959	3 710	4 610	4 598	4 624	4 666	4 835	4 777	4 943	4 908	4 939	4 938	4 930	4 384
Protective service occupations	4 877	4 376	6 587	2 586	6 272	6 195	6 661	5 244	6 687	6 371	7 317	8 000	8 703	8 472	9 031	9 106
Janitors	4 970	4 416	6 587	2 586	6 080	6 033	6 242	5 512	6 666	6 279	7 599	8 399	8 649	8 381	9 031	9 208
Other protective service occupations	3 005	3 005	—	—	9 170	8 898	9 972	1 395	7 074	8 073	1 729	4 838	9 858	9 858	8 031	8 005
Service occupations, except protective and household	3 571	3 515	3 957	3 710	4 571	4 562	4 573	4 633	4 751	4 697	4 857	4 834	4 701	4 702	4 799	4 083
Health occupations, except health service occupations	3 576	3 520	3 967	3 722	4 448	4 365	5 168	4 027	5 698	5 698	5 782	4 932	6 535	6 686	6 293	5 512
Health service occupations	4 336	4 477	3 799	2 791	5 432	5 439	5 079	5 118	5 840	5 982	5 935	2 669	6 947	6 290	8 423	6 452
Cleaning and building service occupations, except household	3 127	3 006	3 469	3 305	3 293	2 973	4 012	4 060	4 549	4 447	4 720	4 864	4 222	4 208	4 269	3 674
Personal service occupations	3 367	3 307	3 757	2 865	5 365	5 354	4 465	4 465	5 070	5 178	4 720	5 133	5 558	5 412	6 211	6 210
Farming, forestry, and fishing occupations	2 433	2 519	694	5 505	4 233	4 218	3 692	5 298	4 941	5 026	4 507	5 606	7 731	6 945	10 991	7 580
Precision production, craft, and repair occupations	5 479	5 331	5 893	6 206	6 884	6 882	7 155	6 493	10 239	10 326	9 543	9 902	10 925	10 999	9 103	12 671
Mechanics and repairers	5 815	6 167	4 907	3 408	6 538	6 594	5 837	6 494	10 639	10 549	9 550	12 783	11 954	11 761	10 786	13 134
Supervisors, mechanics and repairers	6 126	6 905	6 617	6 588	8 301	8 365	—	—	14 187	14 242	10 005	9 005	13 432	12 615	10 005	—
Automobile mechanics, including body	6 126	6 905	6 617	6 588	8 301	8 365	—	—	14 187	14 242	10 005	9 005	13 432	12 615	10 005	—
Industrial machinery repairers	5 243	4 816	6 737	4 195	5 088	5 276	4 303	5 679	8 465	8 465	8 405	17 482	9 517	8 841	8 405	13 225
Electronic repairers, communications and industrial equipment	—	—	—	—	7 409	7 308	7 663	—	9 639	9 593	8 405	—	9 517	8 841	8 405	—
Heating, air conditioning, and refrigeration mechanics	—	—	—	—	6 657	6 883	3 003	8 010	8 568	7 872	13 505	—	9 084	8 137	13 505	—
Other mechanics and repairers	7 451	8 191	2 191	6 187	9 926	10 548	1 005	6 213	6 872	6 872	9 304	—	12 657	12 741	11 318	13 088
Construction trades	3 715	3 346	6 581	12 005	5 113	5 080	5 277	6 304	7 045	7 005	7 699	7 141	9 028	8 938	7 231	9 025
Supervisors, construction occupations	3 782	3 782	4 729	—	7 714	9 239	2 305	—	13 333	13 333	25 048	—	12 123	12 028	—	13 132
Carpenters	18 005	3 712	3 596	—	5 737	7 184	2 870	10 005	4 685	4 726	4 576	5 201	6 237	7 244	3 679	—
Electricians	—	—	18 005	—	6 302	6 079	8 005	—	7 429	6 826	6 168	—	7 384	4 314	6 168	—
Painters, construction and maintenance	2 270	1 784	185	12 005	3 563	3 536	—	6 334	4 946	4 769	8 112	6 672	3 005	3 505	—	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	5 661	5 596	6 445	—	7 005	7 005	—	—
Other construction trades	3 485	3 485	—	—	5 640	5 394	10 016	5 508	4 939	3 986	8 081	4 005	5 391	3 971	10 980	4 005

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Eating and drinking places			Other retail trade			Finance, insurance, and real estate, total			Banking and credit agencies			
	Race			Race			Race			Race			
	Total	White	Black	Total	White	Black	Total	White	Black	Total	White	Black	Spanish origin ¹
Employed females 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Extraction occupations	5 566	5 414	5 936	2 705	2 705	7 405	9 596	9 596	10 518	6 405	6 405	8 807	13 103
Precision production occupations	6 337	6 163	6 843	9 004	8 998	9 552	11 553	11 553	10 518	11 089	11 189	8 807	13 103
Supervisors, production occupations	3 782	3 467	8 005	9 004	8 998	9 552	12 114	12 114	11 089	11 417	11 681	8 807	13 103
Precision metalworking occupations	2 736	2 094	8 005	9 550	9 550	9 550	11 492	12 635	9 469	5 005	10 279	8 505	13 459
Tool and die makers	—	—	—	—	—	—	—	—	—	—	—	—	—
Machine tool operators	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheet metal workers	—	—	—	—	—	—	—	—	—	—	—	—	—
Other precision metal workers	5 633	5 433	—	8 251	8 251	7 877	7 764	7 764	10 005	5 005	6 927	—	—
Precision textile, apparel, and furnishings machine workers	8 682	8 278	—	5 455	5 455	6 114	22 130	22 130	8 505	16 505	16 505	—	—
Precision food production occupations	4 436	4 266	5 092	4 737	4 646	4 904	13 176	18 205	8 505	9 404	8 505	—	—
Precision inspectors, testers, and related workers	8 005	925	8 005	5 285	5 285	7 204	6 205	7 205	6 452	3 159	6 452	6 005	10 005
Print and system operators	1 267	1 267	—	8 872	11 031	3 115	10 171	10 171	16 509	9 844	9 844	—	—
Other precision production occupations	—	—	—	7 658	7 664	7 217	8 041	8 176	5 770	5 334	5 770	10 205	9 815
Operators, fabricators, and laborers	4 248	4 192	4 203	5 008	4 806	6 547	7 387	7 351	7 663	7 555	7 450	8 192	7 082
Machine operators, assemblers, and inspectors	4 210	4 220	4 133	5 029	4 814	5 303	7 753	7 769	7 810	7 596	7 669	7 547	7 371
Machine operators and tenders, except precision	3 487	4 002	4 384	5 016	4 968	5 366	7 740	7 812	7 458	7 087	7 478	7 272	8 034
Metalworking and plastic working machine operators	8 005	8 005	—	7 776	7 770	7 865	12 687	16 402	7 955	11 685	6 436	6 441	13 005
Metal and plastic processing and woodworking machine operators	3 020	2 859	—	6 502	6 286	7 075	8 460	8 506	8 005	9 726	10 371	8 005	16 005
Textile machine operators	5 020	5 257	2 405	6 992	6 913	7 814	8 448	8 563	8 144	6 590	7 672	7 847	5 797
Textile sewing machine operators	4 873	4 821	5	3 436	2 923	5 791	9 975	9 938	8 960	10 667	10 667	—	15 005
Laundry and dry cleaning machine operators	3 582	3 414	3 729	4 136	3 590	4 721	4 806	5 644	3 417	2 307	6 928	—	—
Package and filling machine operators	3 455	3 482	—	4 489	4 469	3 201	4 483	4 483	—	—	—	—	—
Furnace, kiln, and oven operators, except food	5 482	5 500	—	5 034	5 023	5 407	9 527	9 527	—	—	—	—	—
Other specified machine operators	4 410	4 219	4 892	5 034	5 023	5 407	7 436	7 366	7 373	8 020	8 006	5 456	9 448
Miscellaneous and not specified machine operators	4 340	4 219	4 892	4 594	4 557	4 834	7 540	7 583	7 418	7 303	7 225	7 526	8 916
Fabricators, assemblers, and hand working occupations	4 514	4 816	2 925	5 093	4 971	5 830	8 062	8 226	7 839	8 917	7 660	6 956	2 005
Welders and cutters	—	—	—	5 427	5 352	5 901	6 743	6 789	6 024	6 957	7 094	6 024	—
Solders and brazers	—	—	—	5 427	5 352	5 901	6 743	6 789	6 024	6 957	7 094	6 024	—
Assemblers	3 982	3 998	2 857	3 348	3 158	3 005	7 887	7 887	—	—	—	—	—
Hand working occupations	5 319	5 908	3 112	4 528	4 763	6 170	8 491	8 930	5 235	5 235	5 235	7 152	2 005
Production inspectors, testers, samplers, and weighers	5 019	5 453	4 231	5 324	4 528	3 179	7 792	7 422	8 984	7 781	7 963	7 313	—
Graders and sorters, except agricultural	3 525	3 244	6 245	5 379	5 608	5 608	7 581	7 778	9 695	4 758	7 489	6 807	4 738
Other production inspectors, testers, samplers, and weighers	5 483	6 558	4 097	4 305	4 410	4 201	6 466	5 973	8 153	7 091	6 540	8 549	4 236
Transportation and material moving occupations	4 910	4 927	4 806	7 259	6 933	8 147	8 957	7 936	10 951	6 672	8 010	11 524	8 005
Transportation occupations	4 929	4 955	4 729	5 077	4 956	6 806	6 838	6 941	6 631	6 329	7 082	7 951	8 993
Motor vehicle operators	4 941	4 949	4 729	4 922	4 806	6 716	5 652	5 348	6 673	5 228	4 505	8 925	7 555
Truck drivers	4 507	4 548	3 757	6 042	4 915	3 884	5 509	5 348	6 034	5 759	4 450	7 447	7 555
Driver-sales workers	3 356	3 356	10 033	4 331	4 153	3 088	5 584	4 689	5 683	5 192	4 724	8 358	7 555
Other motor vehicle operators	3 999	4 018	6 855	5 376	5 286	6 704	5 351	1 205	8 857	6 205	4 724	8 358	7 555
Rail and water transportation occupations	651	651	—	6 531	6 436	6 005	8 354	8 354	12 140	6 463	4 230	6 851	—
Material moving equipment operators	4 056	3 234	5 698	7 425	7 425	7 441	8 873	5 285	12 140	8 858	14 705	14 705	—
Supervisors, material moving equipment operators	—	—	—	9 857	9 857	7 441	12 681	13 522	7 805	11 005	8 714	6 602	—
Crane, hoist and winch operators	6 555	6 555	—	11 345	14 905	—	12 681	13 522	7 805	10 505	12 005	7 805	11 005
Excavating, grading, and dozer machine operators	—	—	—	5 005	5 005	6 005	6 605	8 605	—	—	8 605	—	—
Other material moving equipment operators	5 410	5 010	5 698	7 488	7 501	7 441	8 352	8 698	6 402	11 005	8 645	6 426	11 005
Handlers, equipment cleaners, helpers, and laborers	3 776	3 520	4 050	4 888	4 517	7 280	6 425	6 049	7 708	5 319	7 737	10 777	5 406
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	5 744	5 350	8 105	5 986	5 986	—	11 312	11 652	7 683	9 532	9 608	8 905	—
Helpers, craft and production	4 097	4 292	4 302	3 209	2 496	—	7 620	7 205	8 818	555	10 335	11 805	555
Construction laborers	5 429	5 780	4 794	5 848	6 218	2 205	6 243	6 756	2 905	11 005	11 005	—	—
Freight, stock, and material handlers	3 453	3 373	3 810	4 898	4 048	13 616	8 194	6 493	14 748	2 930	6 121	22 965	2 930
Garage and service station attendants, and equipment cleaners	4 054	3 644	5 322	4 771	4 771	5 110	6 849	6 109	10 015	7 009	1 005	10 015	1 005
Hand packers and packagers	4 197	3 901	4 295	4 456	4 456	5 732	7 334	7 334	8 858	6 858	7 604	9 316	9 316
Laborers, except construction	3 234	2 951	3 511	4 889	4 821	5 210	5 387	5 293	5 675	6 397	6 500	5 276	8 645

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over.....	23 822	24 575	13 370	16 365	21 975	23 249	10 344	13 161	17 283	18 229	10 007	11 197	11 862	12 243	8 952	9 767
Managerial and professional specialty occupations.....	29 598	30 149	18 101	20 989	28 303	29 537	13 687	16 136	25 374	25 835	17 601	18 099	19 853	20 216	13 096	15 855
Executive, administrative, and managerial occupations.....	30 728	31 319	18 349	21 416	28 417	29 667	13 680	16 011	27 433	28 020	16 994	18 823	19 790	20 152	13 046	15 915
Offices, administrative, and public administration.....	19 443	19 443	18 030	17 350	15 250	17 667	13 680	16 011	21 834	22 433	16 994	18 823	19 790	20 152	13 046	15 915
Financial managers.....	30 165	30 530	18 030	17 350	15 250	17 667	13 680	16 011	21 834	22 433	16 994	18 823	19 790	20 152	13 046	15 915
Managers, marketing, advertising, and public relations.....	31 672	32 117	18 433	17 837	16 188	17 667	13 680	16 011	21 834	22 433	16 994	18 823	19 790	20 152	13 046	15 915
Administrators, education and related fields.....	39 119	39 119	18 433	17 837	16 188	17 667	13 680	16 011	21 834	22 433	16 994	18 823	19 790	20 152	13 046	15 915
Managers, medicine and health.....	27 280	27 848	19 152	20 807	18 509	19 348	11 748	11 947	24 416	25 052	16 599	18 955	19 750	19 989	17 734	17 136
Other specified managers.....	35 198	35 367	21 958	25 316	39 316	40 689	17 363	22 933	30 676	31 676	18 392	20 009	19 672	20 037	12 665	15 935
Managers and administrators, n.e.c.....	34 955	35 346	21 336	25 308	39 473	40 707	16 673	23 914	31 226	31 894	18 323	20 534	20 183	20 656	12 069	15 089
Self-employed.....	41 472	41 774	39 205	25 660	47 472	47 977	27 673	21 749	22 220	22 434	18 829	17 042	18 364	18 483	15 006	18 272
Management related occupations.....	20 646	21 217	15 011	14 258	26 619	27 501	14 070	16 828	22 803	23 340	14 956	16 278	17 209	17 661	13 256	16 354
Accountants and auditors.....	19 102	19 656	14 547	14 034	21 940	22 513	12 799	16 441	18 674	19 090	13 409	14 689	15 700	15 931	13 563	17 749
Personnel, training, and labor relations specialists.....	24 030	24 600	16 655	16 602	29 847	30 834	16 272	18 299	17 827	18 881	12 532	13 910	19 847	20 923	13 494	16 250
Buyers and purchasing agents.....	17 310	17 941	11 877	10 848	24 957	25 868	14 148	18 990	17 827	18 881	12 532	13 910	19 847	20 923	13 494	16 250
Inspectors and inspectors of work.....	17 183	17 319	13 472	12 412	15 668	16 283	13 819	18 048	16 153	16 283	11 264	14 849	14 136	14 336	9 087	12 025
Other management related occupations.....	22 757	23 442	15 501	12 412	15 668	16 283	13 819	18 048	16 153	16 283	11 264	14 849	14 136	14 336	9 087	12 025
Professional specialty occupations.....	24 277	24 637	16 706	18 521	26 818	27 841	13 773	18 605	22 281	22 507	18 612	16 997	22 720	23 004	20 399	14 093
Engineers, architects, and surveyors.....	20 059	20 231	15 084	18 627	23 341	24 257	14 781	22 461	25 285	25 486	19 030	22 215	19 231	19 170	20 880	19 405
Engineers.....	24 025	25 159	14 058	18 627	23 341	24 257	14 781	22 461	25 285	25 486	19 030	22 215	19 231	19 170	20 880	19 405
Civil engineers.....	19 925	20 075	15 203	18 627	23 341	24 257	14 781	22 461	25 285	25 486	19 030	22 215	19 231	19 170	20 880	19 405
Electrical and electronic engineers.....	21 116	21 215	15 593	18 627	23 341	24 257	14 781	22 461	25 285	25 486	19 030	22 215	19 231	19 170	20 880	19 405
Industrial engineers.....	21 041	21 544	14 506	18 903	21 453	22 695	16 005	20 686	25 082	25 227	18 546	21 908	21 769	22 001	17 505	11 005
Mechanical engineers.....	19 196	19 408	14 506	18 903	21 453	22 695	16 005	20 686	25 082	25 227	18 546	21 908	21 769	22 001	17 505	11 005
Other engineers.....	23 599	23 756	28 005	14 064	20 106	19 773	25 543	26 722	25 427	25 689	17 711	21 110	16 629	16 999	22 005	25 005
Surveyors and mapping scientists.....	21 823	21 823	28 005	14 064	20 106	19 773	25 543	26 722	25 427	25 689	17 711	21 110	16 629	16 999	22 005	25 005
Computer systems analysts and scientists.....	20 982	21 246	16 491	19 194	22 668	22 804	20 716	21 549	23 288	23 483	21 340	21 253	20 650	20 699	19 245	19 744
Operations and systems researchers and analysts.....	20 769	21 009	16 719	17 273	22 977	23 727	19 219	21 145	23 619	23 967	18 031	21 685	20 547	20 547	19 245	19 744
Mathematical scientists.....	27 282	27 850	13 488	19 990	23 474	23 472	20 005	2 103	27 869	28 167	17 902	18 037	16 550	16 550	19 245	19 744
Natural scientists.....	15 095	14 740	21 005	19 990	23 474	23 472	20 005	2 103	27 869	28 167	17 902	18 037	16 550	16 550	19 245	19 744
Chemists, except biochemists.....	14 019	14 019	21 005	19 990	23 474	23 472	20 005	2 103	27 869	28 167	17 902	18 037	16 550	16 550	19 245	19 744
Other natural scientists.....	17 373	16 595	21 005	33 005	25 300	25 516	19 005	—	24 019	24 231	18 786	18 223	8 486	8 486	5 684	5 684
Health diagnosing occupations.....	41 678	41 656	33 005	33 005	43 076	43 076	14 005	—	24 019	24 231	18 786	18 223	8 486	8 486	5 684	5 684
Health assessment and treating occupations.....	21 081	21 782	4 505	—	16 280	16 445	14 005	—	17 804	18 050	15 516	17 087	17 005	17 005	—	—
Registered nurses.....	27 188	27 188	4 505	—	16 280	16 445	14 005	—	17 804	18 050	15 516	17 087	17 005	17 005	—	—
Other health assessment and treating occupations.....	18 422	19 064	4 505	—	16 567	16 818	14 005	—	18 869	19 316	13 347	19 732	17 005	17 005	—	—
Teachers, except postsecondary.....	19 913	20 158	13 368	—	17 337	17 282	19 005	14 005	18 655	19 554	10 946	15 880	15 208	15 700	—	11 449
Social scientists and urban planners.....	25 298	25 400	22 172	16 505	31 534	32 610	17 875	19 634	27 587	27 890	19 717	19 723	20 782	20 782	—	—
Social and recreation workers.....	21 881	20 939	29 414	24 008	12 849	13 315	12 538	11 187	14 258	15 844	10 196	10 547	13 655	13 655	—	—
Lawyers and judges.....	31 499	31 834	21 705	24 008	40 544	40 893	24 545	18 280	36 986	37 510	32 004	12 550	17 550	17 550	—	3 396
Writers, artists, entertainers, and athletes.....	19 507	19 818	13 552	14 732	18 985	19 685	8 975	13 777	18 881	19 047	16 315	14 471	17 550	17 550	—	20 037
Other professional specialty occupations.....	16 297	17 825	5 880	11 505	19 273	20 837	4 966	18 992	17 733	18 842	12 291	11 640	14 348	14 348	—	—
Technical, sales, and administrative support occupations.....	22 310	23 011	12 940	16 099	25 088	25 621	12 497	19 566	16 322	16 908	11 108	11 327	13 224	13 624	9 500	10 189
Technicians and related support occupations.....	15 992	16 105	14 586	16 035	17 193	17 555	13 253	13 023	15 636	15 647	12 766	12 524	14 386	14 286	13 491	9 118
Health technologists and technicians.....	15 627	16 433	13 005	9 205	17 213	17 213	—	—	15 743	15 743	12 766	12 695	255	255	—	—
Licensed practical nurses.....	12 026	12 026	13 005	9 205	17 213	17 213	—	—	15 743	15 743	12 766	12 695	255	255	—	—
Other health technologists and technicians.....	16 160	17 214	13 005	9 205	17 213	17 213	—	—	15 743	15 743	12 766	12 695	255	255	—	—
Engineering and science technicians.....	15 249	15 522	12 243	14 869	16 747	17 375	11 532	12 984	15 482	15 737	12 766	12 712	12 025	12 025	10 786	9 440
Electrical and electronic technicians.....	17 468	17 771	16 703	20 809	15 775	16 208	16 472	13 549	19 687	19 846	14 286	14 852	12 184	12 184	38 763	11 944
Industrial and mechanical technicians.....	15 562	15 562	—	20 809	15 775	16 208	16 472	13 549	19 687	19 846	14 286	14 852	12 184	12 184	38 763	11 944
Drafting and surveying technicians.....	12 480	12 957	5 012	24 008	13 383	13 645	9 796	12 938	14 381	14 538	9 907	10 095	8 554	8 554	9 900	8 524
Other engineering and science technicians.....	16 090	15 999	24 505	11 430	23 036	23 036	11 810	12 002	14 341	14 638	12 102	12 408	11 653	12 336	8 424	8 569
Technicians, except health, engineering, and science.....	16 047	16 138	14 812	16 237	17 309	17 601	14 064	13 044	17 786	18 031	14 620	14 673	15 831	15 523	18 179	8 267
Airplane pilots and navigators.....	24 424	24 845	10 005	17 400	19 696	19 696	—	—	19 562	19 562	—	28 005	19 337	19 337	10 005	—
Air traffic controllers and broadcast equipment operators.....	14 784	14 784	—	17 400	16 694	17 022	—	7 005	12 255	12 580	—	7 785	9 295	9 295	10 005	—
Computer programmers.....	16 088	16 165	15 655	17 400	18 749	18 559	20 742	15 814	17 826	18 080	15 452	15 760	18 153	18 153	10 005	8 805
Other technicians, except health, engineering, and science.....	15 663	15 771	11 324	13 549	16 753	17 234	10 248	11 656	18 063	18 287	13 514	13 836	14 057	12 899	20 223	8 155

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race		Spanish origin ¹	Black	Race		Spanish origin ¹	Black	Race		Spanish origin ¹	Black	Race		Spanish origin ¹	Black
	Total	White			Total	White			Total	White			Total	White		
Technical, sales, and administrative support occupations—Con.																
Sales occupations	24 635	25 214	14 395	18 779	26 577	26 899	14 559	23 142	20 917	21 176	16 254	14 053	14 036	14 578	8 810	10 956
Supervisors and proprietors, sales occupations	28 107	28 322	21 155	23 935	40 580	41 079	13 872	24 200	21 732	21 800	18 663	15 299	17 236	17 483	12 375	15 064
Sales representatives, field	27 664	27 887	21 584	23 146	45 219	45 782	18 087	22 203	21 978	21 904	18 663	15 299	17 236	17 483	12 375	15 064
Sales representatives, retail	34 457	34 648	6 585	37 010	32 346	32 816	5 793	28 518	19 841	20 405	14 533	12 732	16 994	17 221	12 746	15 487
Sales representatives, commodities	24 637	25 219	14 374	18 764	26 330	26 636	14 773	23 292	21 184	21 485	15 402	14 140	18 416	18 416	10 426	13 851
Cashiers	12 949	12 985	6 802	11 743	32 364	32 364	—	16 068	32 327	32 650	5 325	8 775	23 813	23 813	10 538	12 410
Other sales occupations, retail and personal services	12 519	16 933	5 064	13 595	16 675	17 162	—	9 511	10 890	10 219	23 406	8 775	10 824	11 363	7 394	8 221
Sales related occupations	12 565	12 430	5 022	13 521	17 300	17 300	—	9 511	10 524	11 302	10 082	2 193	7 180	7 180	6 911	7 221
Other sales occupations, except clerical	15 260	15 449	10 980	16 278	18 242	18 242	—	20 367	10 949	10 057	26 919	10 796	15 072	15 072	7 924	8 618
Administrative support occupations, including clerical																
Supervisors, administrative support occupations	16 393	17 125	10 629	11 215	12 902	13 587	9 281	10 351	12 498	13 160	9 149	9 339	11 142	11 223	10 835	8 664
Secretaries, stenographers, and typists	22 050	22 500	15 327	16 495	21 259	21 927	15 482	14 729	13 010	13 431	10 022	10 981	16 610	16 610	13 337	14 785
Receptionists	14 408	14 801	12 802	6 402	13 087	13 237	11 812	8 269	15 383	16 169	8 807	10 870	13 941	13 941	11 130	12 717
Other information clerks	14 845	15 645	10 077	5 181	13 110	13 451	7 843	9 016	11 457	11 829	6 012	9 325	13 941	13 941	5 226	6 935
Other records processing occupations, except financial	8 886	7 134	7 073	2 182	7 025	7 522	7 600	6 869	17 378	18 118	8 413	12 672	13 676	14 276	5 226	18 841
Payroll and timekeeping clerks	8 973	8 704	10 363	5 358	10 450	10 775	8 307	7 785	6 304	6 300	6 057	4 633	10 252	10 252	5 226	6 467
Other financial records processing occupations	13 092	14 116	6 065	5 157	6 161	6 520	4 376	5 575	10 857	10 857	7 673	5 255	5 914	5 263	6 194	8 590
Bookkeepers, accounting, and auditing clerks	13 812	14 207	9 322	8 796	14 334	14 823	8 947	12 838	7 008	12 631	8 166	6 798	7 980	8 221	11 147	8 803
Other financial records processing occupations	13 709	14 207	11 400	9 827	12 590	12 920	10 884	11 410	11 440	11 781	9 141	9 134	10 802	10 833	6 611	8 444
Telephone operators	11 084	10 073	10 061	9 051	12 843	13 264	5 974	8 665	13 400	13 715	10 907	10 333	10 206	10 206	15 005	7 065
Mail and message distributing occupations	8 648	9 730	5 575	6 213	7 617	7 403	6 258	6 009	8 729	9 243	4 871	3 482	7 577	7 577	—	—
Production coordinators and expeditors	6 901	7 117	6 376	5 382	7 143	7 403	6 258	6 009	8 729	9 243	4 871	3 482	7 577	7 577	—	—
Traffic, shipping, and receiving clerks	14 724	16 005	9 456	9 582	14 049	14 977	9 255	12 916	15 460	16 179	10 743	12 028	5 147	5 147	5 290	6 850
Stock and inventory clerks	9 511	9 581	9 894	9 114	8 114	8 205	6 156	8 524	9 227	9 243	9 172	9 117	12 048	12 048	10 215	3 576
Other material recording, scheduling, and distributing clerks	8 896	8 771	9 065	8 061	10 296	10 552	8 705	12 248	8 766	8 910	9 172	9 602	9 677	9 677	24 984	7 141
Adapters and investigators	10 875	12 055	14 445	7 335	11 088	11 089	11 969	11 969	11 267	11 427	10 959	9 988	12 294	12 294	6 357	9 812
Date-entry keyers	17 184	17 508	12 463	14 077	15 954	16 331	12 940	11 314	14 314	14 467	17 358	11 689	10 603	10 802	13 551	12 497
Other administrative support occupations	12 080	13 079	7 525	8 346	12 065	12 850	8 245	9 270	8 823	11 389	10 453	9 165	5 517	5 517	8 834	10 989
Service occupations																
Private household occupations	9 662	10 351	7 809	9 246	8 483	8 530	8 288	8 982	8 472	8 743	7 560	8 106	6 136	6 114	6 585	6 252
Protective service occupations	11 729	12 257	8 717	12 065	8 478	8 376	9 073	7 958	8 115	8 274	7 583	7 413	7 782	7 782	6 663	6 816
Guards	10 749	11 230	8 242	12 065	8 478	8 376	9 073	7 958	8 115	8 274	7 583	7 413	7 782	7 782	6 663	6 816
Other protective service occupations	17 215	17 435	14 235	13 268	14 001	14 001	10 328	12 111	12 774	13 005	11 214	9 907	9 965	9 965	7 447	6 444
Food preparation and service occupation	9 118	9 738	7 676	8 986	8 483	8 552	8 199	9 145	8 736	9 074	7 544	8 374	9 965	9 965	6 571	6 202
Health service occupations	19 088	20 145	6 023	7 148	6 277	6 729	5 574	9 205	12 167	14 770	5 801	6 686	8 289	8 289	7 834	12 476
Cleaning and building service occupations, except household	19 500	21 618	7 005	9 328	8 485	8 529	8 273	9 075	8 714	9 079	7 563	8 385	3 955	3 955	6 225	5 642
Personal service occupations	21 294	22 931	11 386	8 311	8 925	9 330	7 424	9 519	10 182	10 884	8 078	10 269	9 572	9 572	9 724	9 174
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations	9 835	9 400	12 905	27 570	7 758	7 936	7 142	6 829	8 332	8 622	7 187	7 613	6 299	5 385	—	9 099
Mechanics and repairers	17 338	17 738	12 057	14 010	12 335	12 780	10 770	9 967	15 374	15 671	12 258	12 617	11 817	12 057	9 519	10 305
Supervisors, mechanics and repairers	15 464	15 691	12 616	12 142	11 215	11 392	10 770	11 661	15 192	15 445	12 916	12 667	11 777	12 011	9 505	10 237
Automobile mechanics, including body	18 097	18 833	14 245	14 005	12 869	13 001	11 901	12 915	19 489	19 553	15 819	18 345	17 099	17 217	14 437	15 823
Industrial machinery repairers	14 653	14 667	15 381	3 005	10 132	9 951	10 739	10 854	13 724	14 083	10 902	11 370	11 370	11 731	9 925	10 048
Electronic repairers, communications and industrial equipment	24 437	24 437	—	—	9 224	8 956	6 765	19 245	13 634	13 941	9 593	12 308	11 866	12 151	8 099	9 038
Heating, air conditioning, and refrigeration mechanics	16 566	16 615	15 005	1 785	13 127	13 220	11 948	13 945	14 747	14 867	12 360	14 380	15 212	15 212	17 072	16 326
Other mechanics and repairers	14 919	15 207	10 627	14 996	10 487	10 686	10 686	10 896	15 604	15 832	13 160	14 380	15 212	15 212	10 517	11 593
Construction trades																
Supervisors, construction occupations	18 147	15 405	9 146	11 841	11 605	12 092	10 196	8 901	13 655	13 977	11 053	11 789	12 246	12 246	9 910	10 066
Carpenters	13 832	13 863	4 195	12 369	19 379	20 303	14 899	14 899	19 615	19 812	16 239	14 782	20 303	20 303	2 105	8 061
Electricians	15 491	15 723	8 005	14 395	10 296	10 690	8 708	12 634	14 053	14 178	13 227	13 498	13 582	13 582	14 208	10 543
Painters, construction and maintenance	12 644	13 145	11 401	10 948	14 917	15 186	14 572	12 967	14 053	14 178	13 227	13 498	13 582	13 582	14 208	10 543
Plumbers, pipefitters, and steamfitters	16 496	17 054	14 433	11 097	8 112	8 071	8 553	7 075	10 051	10 100	12 941	9 229	11 896	11 896	12 270	11 772
Other construction trades	12 755	13 814	2 705	—	10 137	10 070	10 807	11 179	15 557	15 746	12 941	10 275	12 451	12 451	5 546	10 296

Percentages of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over—Con.

Insurance				Other finance and real estate				Business services				Automotive repair and services			
Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
19 878	20 200	14 449	—	19 594	19 945	17 005	23 005	16 471	16 722	10 505	14 005	21 679	21 679	9 940	—
20 915	21 331	14 961	16 478	16 904	17 548	13 853	12 231	17 692	18 119	13 348	13 602	13 554	14 064	9 940	11 957
12 921	12 638	—	18 480	19 876	20 526	17 074	14 723	18 993	19 457	13 610	15 030	16 716	17 039	10 855	17 063
10 005	10 005	—	10 005	12 620	13 475	6 981	8 165	15 732	16 033	12 692	12 560	12 846	13 036	9 267	—
13 147	13 147	—	10 005	9 068	9 068	—	—	16 908	17 071	12 578	—	18 493	18 493	—	—
24 693	25 362	—	—	13 181	14 629	6 513	—	15 415	15 959	13 120	12 273	12 459	12 904	9 005	16 613
7 733	7 733	—	—	4 157	5 555	1 605	—	16 103	16 380	13 299	15 249	11 020	10 594	15 005	16 613
11 415	11 415	—	4 685	13 368	13 819	9 640	13 378	15 074	16 380	13 120	12 273	12 459	12 904	9 005	16 613
14 308	14 308	4 805	16 307	13 460	14 053	17 124	4 639	9 252	9 159	13 338	9 490	10 774	11 059	8 083	27 545
19 351	19 351	—	16 005	16 311	13 117	15 755	15 005	15 039	15 416	13 154	9 490	10 774	11 059	8 083	27 545
18 463	18 445	17 501	17 677	11 835	16 404	6 048	—	15 059	15 416	13 154	9 490	10 774	11 059	8 083	27 545
22 167	23 689	11 005	—	15 932	16 470	13 286	11 458	19 267	19 779	14 728	14 516	13 189	16 760	3 689	15 322
10 808	11 265	9 073	9 095	10 285	10 724	8 893	9 833	10 522	10 955	8 379	8 776	8 149	8 354	7 478	7 553
11 872	12 340	9 969	10 002	12 930	13 722	10 300	12 203	11 486	11 460	9 481	9 216	10 911	11 233	9 313	9 929
11 272	11 714	9 965	10 002	12 930	13 722	10 300	12 203	11 486	11 460	9 481	9 216	10 911	11 233	9 313	9 929
12 495	12 495	—	—	12 476	19 560	1 073	5 103	11 262	11 482	10 888	10 155	10 095	9 648	7 540	9 966
10 405	10 405	—	—	—	—	—	—	11 214	10 596	18 505	11 239	15 392	15 294	13 005	20 602
8 434	7 599	9 348	4 849	10 532	11 462	5 572	15 025	10 881	11 270	6 206	12 523	11 289	10 789	12 695	16 516
11 715	12 205	10 219	11 957	11 167	24 517	9 572	11 023	12 377	12 485	11 676	10 070	11 810	11 810	6 740	—
20 010	—	—	—	20 918	—	—	—	9 200	9 329	6 709	4 541	8 403	10 065	—	—
18 005	18 005	—	—	—	—	—	—	11 752	11 752	—	12 708	10 155	10 155	—	—
10 272	5 955	9 613	11 685	6 371	6 673	5 132	—	9 580	10 266	7 998	4 623	6 027	10 467	1 998	—
5 955	13 787	6 821	22 172	30 819	30 819	—	—	6 771	6 851	8 512	6 132	12 618	14 380	—	13 394
8 398	8 291	10 343	5 343	13 628	12 767	14 948	13 655	15 189	15 819	12 136	8 316	4 618	6 049	1 478	3 948
11 471	12 460	9 554	4 349	12 162	12 197	10 987	13 686	10 625	10 792	9 648	8 316	11 145	11 541	9 408	10 187
11 206	11 593	—	—	13 526	15 499	7 308	11 554	11 406	12 134	8 799	10 045	9 830	9 890	9 819	10 187
16 221	20 546	—	—	11 681	12 765	8 272	9 224	11 598	11 891	8 504	9 945	10 848	11 095	10 385	9 731
9 344	9 344	—	—	12 693	14 398	2 935	6 412	13 507	13 967	10 299	11 045	11 173	11 264	10 335	10 033
15 147	15 147	—	—	—	—	—	—	8 816	8 816	—	—	7 138	7 870	8 580	8 580
15 714	15 756	14 155	—	12 718	13 660	9 939	12 709	9 041	9 392	7 913	8 131	10 487	10 864	8 235	9 962
17 605	805	—	—	8 071	7 841	—	12 058	11 924	12 097	8 303	10 509	10 111	11 190	10 848	9 662
15 664	15 997	14 155	—	14 433	15 221	8 854	17 355	13 732	14 055	12 038	9 574	9 318	9 346	10 311	11 353
9 829	10 735	7 867	7 992	11 084	13 819	7 041	15 394	8 344	8 786	10 158	4 252	12 169	12 169	—	—
9 582	10 224	8 419	7 881	12 685	13 206	10 513	10 473	16 173	17 134	10 585	10 684	11 140	11 492	6 465	14 498
9 502	10 015	9 536	6 235	12 685	13 206	10 513	10 473	16 173	17 134	10 585	10 684	11 140	11 492	6 465	14 498
7 091	8 372	3 888	—	17 880	17 880	—	—	21 389	21 896	10 929	12 966	19 471	24 507	1 005	—
10 007	10 729	7 435	11 401	15 525	14 426	17 470	—	15 397	16 003	10 275	12 670	10 719	10 250	6 926	9 119
—	—	—	—	12 010	12 339	8 403	13 364	15 397	16 003	10 275	12 670	10 719	10 250	6 926	9 119
11 171	13 334	4 962	10 005	12 690	13 737	8 776	9 006	12 931	13 743	10 678	10 771	10 811	11 133	6 926	18 444
12 005	12 005	—	—	8 708	8 993	7 861	9 099	7 698	8 094	5 897	7 427	5 507	5 459	6 010	5 343
18 580	18 580	—	—	10 981	11 566	9 886	7 560	16 022	16 804	6 331	9 005	14 933	14 933	7 155	—
10 138	12 428	4 962	10 005	6 810	6 912	8 316	7 750	6 848	6 606	8 014	5 896	5 741	5 741	3 848	5 846
8 299	8 367	8 003	7 470	10 484	11 503	7 502	9 176	9 253	10 228	5 005	16 188	6 291	7 895	6 291	3 848
17 807	17 807	—	—	8 230	7 792	8 928	9 911	7 121	7 762	5 361	6 589	6 398	6 230	6 298	6 102
9 720	9 720	—	9 005	9 024	9 109	8 930	7 950	7 760	8 084	5 890	6 546	5 337	5 314	5 807	5 078
14 928	14 928	9 330	—	7 453	7 755	8 918	5 445	6 600	6 710	6 828	4 932	8 739	8 739	14 335	14 335
6 633	6 616	—	8 461	8 579	8 886	7 700	9 234	7 777	8 124	5 862	8 116	5 917	5 773	6 282	6 357
4 274	3 406	5 605	—	—	—	—	—	—	—	—	—	—	—	—	—
2 452	2 452	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8 250	8 108	7 219	6 858	—	—	—	—	—	—	—	—	—	—	—	—

United States

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over																
Managerial and professional specialty occupations.....	9 103	9 154	8 643	8 435	9 549	9 656	7 830	8 259	7 887	8 083	6 748	6 757	6 704	6 726	6 367	6 616
Executive, administrative, and managerial occupations.....	13 156	13 233	12 350	12 238	10 639	10 672	10 141	8 890	11 166	11 163	10 697	10 366	10 888	10 919	10 944	11 392
Officials and administrators, public administration.....	13 039	13 128	12 207	12 018	10 573	10 596	10 214	8 846	11 476	11 464	11 306	11 074	10 899	10 960	10 238	11 662
Financial managers.....	7 753	7 755	7 755	7 755	6 261	6 261	6 261	6 261	16 495	16 495	16 495	16 495	15 397	16 032	1 487	13 005
Managers, marketing, advertising, and public relations.....	15 826	15 808	14 053	17 792	18 598	16 715	11 892	15 594	14 652	14 870	9 416	14 784	15 397	16 032	1 487	13 005
Administrators, education and related fields.....	14 957	16 475	13 408	17 099	18 598	16 715	11 892	15 594	15 210	15 292	13 433	12 647	13 825	13 704	—	15 932
Managers, medicine and health.....	—	—	—	—	8 092	7 727	—	—	11 848	12 116	10 363	8 505	—	—	—	—
Other specified managers.....	16 009	16 246	15 012	12 594	8 176	8 158	8 510	7 115	14 109	14 128	13 781	10 809	13 542	12 854	22 573	23 849
Managers and administrators, n.e.c.....	14 128	14 119	14 201	12 585	13 040	13 133	11 508	10 821	13 559	13 527	13 781	10 809	13 542	12 854	22 573	23 849
Self-employed.....	14 327	14 326	14 365	12 827	13 252	13 351	11 515	11 102	14 013	13 982	13 836	13 322	10 550	10 654	9 007	10 569
Management related occupations.....	7 049	7 075	3 945	—	10 286	10 358	11 287	7 294	10 043	10 113	10 149	7 081	7 488	7 537	8 053	12 494
Accountants and auditors.....	11 523	11 592	10 933	11 218	12 575	12 475	13 380	11 529	9 230	9 127	9 995	9 416	10 768	10 698	11 150	10 318
Personnel, training, and labor relations specialists.....	10 403	10 443	9 893	10 140	11 794	11 774	13 085	11 006	10 071	9 891	11 394	9 270	9 841	9 631	10 831	9 818
Buyers and purchasing agents.....	13 208	13 183	13 533	14 921	12 426	12 426	13 891	9 270	10 996	11 008	10 633	15 266	15 266	15 370	12 505	18 605
Inspectors and compliance officers.....	11 978	12 100	10 360	10 896	10 625	9 355	11 707	12 505	8 262	12 011	9 379	11 411	8 949	8 997	12 505	18 605
Other management related occupations.....	10 071	10 383	8 365	13 586	8 582	7 572	10 707	12 027	11 003	8 388	6 388	4 518	2 193	2 193	—	5 005
Professional specialty occupations.....	11 824	11 874	11 289	10 573	13 895	13 887	13 926	12 543	7 169	7 107	7 676	6 839	11 144	11 144	—	—
Engineers, architects, and surveyors.....	13 693	13 710	13 027	13 464	11 558	11 811	9 714	9 525	10 685	10 691	9 771	9 066	10 537	9 589	18 247	2 252
Architects.....	12 927	13 299	13 700	9 016	13 405	13 335	21 005	—	14 419	14 279	13 286	12 543	16 041	16 041	17 984	—
Engineers.....	10 302	10 763	—	—	13 390	13 390	21 005	—	8 945	9 202	6 836	13 103	3 985	—	3 985	—
Civil engineers.....	13 081	13 452	13 700	9 016	13 484	13 316	—	—	14 981	14 867	14 003	13 103	17 715	12 672	21 317	—
Electrical and electronic engineers.....	11 992	12 115	—	11 005	19 031	19 031	—	—	7 953	7 953	—	—	—	—	—	—
Industrial engineers.....	16 575	16 575	—	—	9 301	9 301	—	—	16 809	16 809	15 021	1 505	—	—	—	—
Mechanical engineers.....	12 634	13 019	13 700	8 732	17 105	17 105	—	—	12 833	13 234	10 005	12 005	12 672	12 672	—	—
Other engineers.....	16 848	16 848	—	—	—	—	—	—	13 234	15 506	14 493	14 877	21 317	21 317	—	—
Surveyors and mapping scientists.....	14 664	14 664	—	—	13 287	12 997	21 005	—	5 310	5 310	—	6 005	—	—	—	—
Computer systems analysts and scientists.....	16 409	16 424	16 183	18 460	17 482	18 825	11 074	12 505	17 283	17 323	17 400	16 161	14 298	14 298	—	—
Operations and systems researchers and analysts.....	15 256	15 213	15 299	13 737	15 779	15 779	14 766	—	15 339	15 312	14 168	11 182	—	—	—	—
Mathematical scientists.....	13 947	14 146	12 291	12 275	12 929	12 929	14 327	—	14 377	14 141	19 789	11 434	—	—	—	—
Natural scientists.....	12 327	11 048	18 965	9 005	11 592	11 760	9 338	—	13 209	13 406	11 791	9 582	6 605	6 605	—	—
Chemists, except biochemists.....	14 217	11 944	26 195	10 021	10 021	10 021	9 338	—	13 018	12 254	9 130	10 017	6 605	6 605	—	—
Other natural scientists.....	10 090	10 266	4 505	9 005	12 024	12 284	9 342	—	12 830	12 754	9 831	10 841	6 605	6 605	—	—
Health diagnosing occupations.....	14 517	12 789	9 147	17 130	9 342	9 342	9 342	—	18 382	19 377	8 702	24 490	6 605	6 605	—	—
Health assessment and treating occupations.....	10 909	10 583	13 748	21 572	11 137	11 094	6 029	—	8 958	9 068	8 025	9 536	4 922	4 922	—	—
Registered nurses.....	11 070	10 729	14 106	22 032	11 479	11 101	3 146	—	8 825	8 929	7 957	9 403	12 305	12 305	—	—
Other health assessment and treating occupations.....	9 106	8 874	10 887	11 005	10 104	11 073	3 146	—	11 086	11 066	10 831	16 672	12 305	12 305	—	—
Teachers, except postsecondary.....	13 888	13 441	16 934	5 005	8 432	7 077	13 778	1 005	9 141	9 538	7 173	8 756	6 505	6 505	—	—
Social scientists and urban planners.....	13 900	13 979	14 485	18 390	14 485	14 701	14 199	10 644	13 650	13 495	17 369	13 850	13 774	13 774	—	—
Social and recreation workers.....	11 437	12 402	8 511	4 892	8 521	8 483	8 507	8 958	8 205	8 153	9 278	6 567	—	—	—	—
Lawyers and judges.....	15 503	15 882	12 562	15 577	17 283	17 185	21 362	8 229	17 229	17 640	13 862	9 900	10 050	10 050	—	—
Writers, artists, entertainers, and athletes.....	12 313	12 537	9 643	9 006	10 040	10 091	8 575	7 953	9 585	9 552	9 125	7 660	8 692	8 576	—	—
Other professional specialty occupations.....	12 109	12 474	8 422	4 086	11 133	11 650	8 575	18 370	10 825	10 841	10 417	9 830	19 005	19 005	—	—
Technical, sales, and administrative support occupations.....	8 613	8 637	8 374	8 151	9 652	9 700	8 319	8 844	7 315	7 325	7 221	6 884	6 334	6 317	6 551	6 063
Technicians and related support occupations.....	11 205	11 252	10 895	9 588	9 354	9 302	9 592	9 538	9 888	9 704	9 317	8 360	9 474	9 069	11 222	24 525
Health technicians and technicians.....	8 433	8 233	9 373	14 119	10 471	10 845	9 172	9 505	7 198	7 004	7 440	7 218	10 320	13 035	7 605	—
Licensed practical nurses.....	6 544	6 220	9 096	15 005	8 160	8 315	9 172	9 505	6 714	6 602	7 327	9 460	10 320	13 035	7 605	—
Other health technicians and technicians.....	10 815	10 856	9 728	13 847	16 688	16 688	—	—	10 009	9 992	9 777	—	—	—	—	—
Engineering and science technicians.....	10 002	9 881	10 825	10 931	9 792	9 931	11 666	6 706	8 741	8 724	8 966	6 079	8 064	5 764	—	—
Electrical and electronic technicians.....	9 484	9 386	10 994	12 005	8 972	8 176	9 963	6 373	10 392	10 648	9 669	6 494	—	—	—	—
Industrial and mechanical engineering technicians.....	9 198	9 198	—	—	8 972	8 590	6 590	—	10 392	10 648	9 669	6 494	—	—	—	—
Drafting and surveying technicians.....	9 773	9 445	12 190	9 520	9 874	10 161	9 069	10 432	8 228	8 165	9 913	7 743	5 095	5 095	—	—
Other engineering and science technicians.....	10 474	10 554	9 984	12 594	10 649	10 611	16 295	4 859	8 733	8 729	—	—	8 424	5 965	—	—
Technicians, except health, engineering, and science.....	11 457	11 525	11 025	9 196	9 309	9 250	9 160	10 254	11 623	11 588	11 733	9 288	9 578	9 267	12 026	24 525
Airplane pilots and navigators.....	7 005	7 005	—	—	7 298	7 576	5 275	9 242	16 377	16 377	7 688	5 916	7 169	7 169	—	—
Air traffic controllers and broadcast equipment operators.....	9 980	10 125	—	—	13 390	13 157	13 008	11 814	12 774	12 758	12 741	11 360	14 858	14 786	15 805	—
Computer programmers.....	12 746	12 957	11 228	10 960	8 938	8 937	7 247	10 218	9 846	9 811	10 308	6 763	8 564	8 454	9 803	—
Other technicians, except health, engineering, and science.....	9 953	9 916	10 803	7 893	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	10 865	10 965	9 726	10 596	11 349	11 356	9 290	10 883	7 831	7 894	7 400	6 636	6 761	6 732	7 113	6 453
Supervisors and proprietors, sales occupations	13 660	13 683	13 401	11 875	19 784	20 162	12 747	8 585	10 521	10 419	12 890	10 413	9 393	9 700	2 317	7 049
Salaries	13 612	13 632	13 401	11 875	19 784	20 162	12 747	8 585	10 521	10 419	12 890	10 413	9 393	9 700	2 317	7 049
Self-employed	14 953	14 953	—	—	21 393	21 390	9 584	—	9 338	9 360	9 585	8 260	6 618	7 312	1 880	8 505
Sales representatives, finance and business services	10 993	11 087	9 892	10 804	11 413	11 407	9 584	11 176	9 338	9 360	9 585	8 260	7 442	7 350	8 187	7 558
Sales representatives, commodities, except retail	9 477	9 477	—	—	6 942	6 942	—	—	14 349	14 300	21 005	24 005	6 596	6 551	7 100	6 343
Sales representatives, retail and personal services	7 216	7 231	7 009	7 004	7 852	7 949	7 040	6 910	4 338	3 668	3 963	4 042	5 104	4 911	6 168	5 141
Cashiers	7 841	7 896	7 378	7 673	7 970	7 861	8 626	7 180	3 401	3 393	4 433	4 136	7 453	7 393	8 308	7 156
Other sales occupations, retail and personal services	4 235	4 216	4 756	5 050	7 758	8 013	4 034	6 555	3 401	3 393	4 433	4 136	7 453	7 393	8 308	7 156
Sales related occupations	9 557	9 676	—	5 337	4 300	4 300	—	—	5 158	5 196	4 880	4 531	—	—	—	—
Administrative support occupations, including clerical	8 132	8 127	8 121	7 779	7 735	7 696	7 991	7 671	7 011	7 020	6 966	6 776	6 202	6 200	6 034	5 906
Supervisors, administrative support occupations	12 514	12 574	12 044	11 963	11 837	11 768	12 306	10 359	11 457	11 464	11 412	11 843	9 917	9 965	6 605	9 467
Computer equipment operators	8 770	8 767	8 580	8 361	9 113	9 201	8 371	7 988	8 445	8 406	8 936	8 324	7 891	8 009	4 593	12 303
Secretaries, stenographers, and typists	7 405	7 398	7 440	7 085	7 773	7 624	6 134	7 951	7 345	7 372	7 054	7 714	6 487	6 492	5 716	5 541
Secretaries	7 704	7 680	7 749	7 266	7 773	7 624	6 134	7 951	7 345	7 372	7 054	7 714	6 487	6 492	5 716	5 541
Stenographers and typists	6 450	6 381	6 683	6 743	6 480	6 108	5 683	7 918	6 457	6 530	5 697	5 513	6 530	6 575	4 861	7 247
Receptionists	6 488	6 499	6 692	6 478	4 986	4 982	5 168	4 419	4 753	4 411	5 939	5 042	5 032	5 259	3 254	4 086
Other information clerks	7 780	7 637	8 617	8 078	5 956	5 391	6 955	4 085	4 205	4 199	4 300	3 690	4 525	4 092	6 515	4 421
File clerks	5 049	4 957	5 526	4 812	5 073	4 868	5 478	4 593	4 205	4 199	4 300	3 690	4 525	4 092	6 515	4 421
Other records processing occupations, except financial	8 299	8 333	8 150	7 613	8 526	8 533	8 884	6 823	6 887	6 882	6 908	6 077	7 097	6 908	8 683	5 679
Bookkeepers, accounting, and auditing clerks	8 574	8 586	8 181	8 856	8 488	8 425	9 243	8 445	7 797	7 771	8 148	8 347	5 781	5 744	6 869	9 578
Payroll and timekeeping clerks	9 691	9 759	9 724	8 380	8 971	9 236	6 520	7 318	8 075	8 040	8 654	9 026	10 322	10 770	5 716	10 175
Other financial records processing occupations	7 429	7 430	8 496	7 679	8 237	8 433	5 563	10 469	6 937	6 953	6 796	6 648	6 678	6 801	8 582	6 468
Telephone operators	5 640	5 637	5 548	5 607	6 600	6 607	6 607	5 761	5 507	5 591	5 615	5 059	7 438	8 408	5 205	6 400
Mail and message distributing occupations	8 734	8 799	8 354	7 746	9 151	8 893	10 001	10 196	6 995	7 101	6 673	7 744	7 663	7 598	9 005	8 005
Production coordinators and expeditors	7 014	7 192	7 737	7 624	7 731	7 729	5 396	10 196	6 995	7 101	6 673	7 744	7 663	7 598	9 005	8 005
Traffic, shipping, and receiving clerks	7 247	7 213	7 737	7 624	7 731	7 729	5 396	10 196	6 995	7 101	6 673	7 744	7 663	7 598	9 005	8 005
Stock and inventory clerks	7 870	7 932	7 878	7 970	6 231	5 991	8 951	8 986	6 845	7 020	5 621	6 269	5 784	5 933	5 789	10 012
Other material recording, scheduling, and distributing clerks	9 800	9 812	9 608	9 454	8 609	8 508	8 951	8 986	6 845	7 020	5 621	6 269	5 784	5 933	5 789	10 012
Adjusters and investigators	7 969	7 842	8 093	8 151	8 196	8 196	7 944	8 367	6 834	6 782	7 026	6 702	7 819	7 770	7 239	9 143
Date-entry typists	7 566	7 537	7 752	7 426	7 119	7 035	7 574	6 891	6 134	6 096	6 407	6 076	5 808	5 854	5 532	5 432
Other administrative support occupations	5 722	5 685	5 731	6 421	4 577	4 471	4 771	4 811	4 740	4 740	4 681	4 685	4 237	4 181	4 704	3 821
Service occupations	5 729	4 934	7 425	10 520	5 286	5 061	6 011	5 208	5 442	5 773	5 375	5 010	5 262	7 329	2 002	—
Private household occupations	5 862	5 055	7 425	10 520	5 246	5 061	6 011	5 208	5 442	5 773	5 375	5 010	5 262	7 329	2 002	—
Protective service occupations	2 916	2 916	—	—	5 948	7 431	1 729	2 375	8 023	8 495	5 476	9 683	12 005	12 005	2 002	—
Guards	5 722	5 711	5 703	6 335	4 549	4 445	4 729	4 807	4 589	4 546	4 589	4 660	4 155	3 994	5 253	3 821
Other protective service occupations	5 885	5 909	5 846	4 906	4 397	4 396	4 356	4 137	4 488	4 519	3 795	4 468	5 337	5 483	2 195	—
Service occupations, except protective and household	6 169	6 309	6 309	2 466	4 652	5 124	4 356	1 632	4 439	4 307	4 580	4 071	6 005	6 005	3 161	—
Food preparation and service occupation	5 532	5 404	5 677	7 982	4 340	4 401	4 772	4 839	4 431	4 346	4 515	4 746	3 572	3 161	5 352	3 078
Health service occupations	6 036	6 440	4 686	3 301	4 730	4 820	4 440	5 161	6 543	6 676	6 047	4 349	6 651	6 651	—	—
Cleaning and building service occupations, except household	3 378	1 355	4 091	—	4 782	4 939	3 616	4 915	5 946	5 706	4 325	7 004	3 426	7 305	605	—
Personal service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	12 070	12 339	10 255	8 330	7 967	7 885	9 232	8 079	9 051	9 159	8 163	8 143	8 135	8 144	7 508	9 725
Precision production, craft, and repair occupations	10 336	10 304	6 482	7 657	9 024	8 885	8 957	20 005	9 769	9 708	8 987	8 143	10 190	9 833	7 627	10 190
Mechanics and repairers	16 486	16 486	—	—	12 343	13 005	—	9 005	11 470	11 439	9 905	7 507	10 580	9 408	7 549	37 130
Supervisors, mechanics and repairers	4 457	4 457	—	—	13 005	13 005	—	—	6 133	7 079	—	4 362	7 845	7 802	7 628	9 672
Automobile mechanics, including body	10 092	10 953	—	3 205	9 492	9 492	—	31 005	9 847	10 200	7 100	—	6 814	6 814	—	—
Industrial machinery repairers	8 255	8 255	—	—	1 355	1 355	—	—	7 227	7 049	10 473	175	5 513	5 256	6 005	205
Electronic repairers, communications and industrial equipment	9 460	9 872	6 482	8 505	6 872	6 872	8 957	—	9 794	9 794	10 501	—	7 225	7 282	8 055	3 155
Heating, air conditioning, and refrigeration mechanics	12 811	14 123	9 357	—	6 252	6 232	—	6 676	8 084	7 891	10 501	8 707	5 469	5 493	5 005	—
Other mechanics and repairers	22 982	22 982	—	—	13 153	13 018	—	7 098	9 181	10 123	4 468	8 623	5 753	5 753	—	—
Construction trades	3 803	3 803	—	—	4 434	4 318	—	5 201	9 268	8 335	7 814	8 744	3 817	3 652	—	—
Supervisors, construction occupations	10 144	10 082	10 205	—	4 841	4 711	—	6 672	5 620	5 402	—	8 005	12 005	12 005	—	—
Carpenters	8 736	8 736	—	—	3 244	2 644	—	—	11 884	11 884	—	8 005	9 375	9 375	—	—
Electricians	10 147	13 005	8 933	—	2 988	3 283	—	—	8 393	8 467	7 064	10 005	9 375	9 375	—	—
Painters, construction and maintenance	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	12 244	12 444	10 778	—	12 088	12 088	—	—	10 472	11 736	6 005	—	9 489	10 122	6 618	3 563
Precision production occupations	12 479	12 614	11 084	8 537	11 162	11 080	12 502	7 258	8 956	9 149	7 889	7 891	14 355	14 733	10 063	—
Supervisors, production occupations	15 455	15 455	—	10 169	12 673	13 354	10 005	8 208	10 669	10 878	8 642	9 881	16 123	16 123	1 865	—
Precision metalworking occupations	12 705	12 705	—	—	12 284	12 284	—	5 005	6 855	6 783	7 986	9 548	—	—	—	—
Tool and die makers	—	—	—	—	—	—	—	—	7 865	7 865	—	—	—	—	—	—
Machinists	—	—	—	—	—	—	—	—	7 459	7 459	10 672	11 005	—	—	—	—
Other metal workers	—	—	—	—	30 005	30 005	—	5 005	6 374	6 458	4 405	7 605	15 375	16 951	1 865	—
Other metal workers, except machine workers	18 205	18 205	—	—	—	—	—	—	6 458	6 458	4 405	7 605	12 376	12 376	—	—
Precision textile, apparel, and leather occupations	9 618	9 618	—	—	4 228	3 778	—	5 031	4 919	4 590	5 746	5 443	6 677	6 541	9 321	7 215
Precision food production occupations	11 755	11 755	—	—	6 805	6 776	7 005	—	4 265	3 111	6 332	6 405	6 013	6 013	2 067	3 141
Precision inspectors, testers, and related workers	9 835	9 835	—	—	11 193	6 417	18 953	—	7 445	7 040	9 925	6 240	6 013	6 783	—	—
Plant and system operators	10 865	11 354	6 675	—	6 295	5 931	8 133	7 224	12 177	13 440	5 933	5 168	7 638	7 638	—	—
Other precision production occupations	7 794	7 701	7 704	5 994	6 644	6 579	6 812	5 847	6 106	6 106	5 918	6 191	4 567	4 530	4 739	4 813
Operators, fabricators, and laborers	7 912	7 858	7 979	5 893	7 769	7 779	6 979	6 102	6 504	6 464	6 400	6 510	6 510	6 432	6 681	6 931
Machine operators and tenders, except precision	7 991	7 954	7 890	6 336	7 767	8 027	6 930	6 311	6 367	6 367	6 368	6 371	6 368	6 311	5 836	6 863
Metalworking and plastic working machine operators	7 004	6 103	12 732	9 705	8 422	8 422	—	—	7 136	7 136	5 457	9 149	5 154	5 154	—	—
Fabricating machine operators, n.e.c.	7 005	7 005	—	—	16 475	16 475	—	—	7 136	7 136	—	—	8 049	8 049	—	—
Metal and plastic processing and woodworking machine operators	11 420	11 420	—	—	5 888	5 888	—	7 705	6 477	6 118	7 648	5 159	3 614	3 614	—	—
Machine operators	8 697	8 646	8 865	5 729	10 250	10 250	—	7 737	7 605	7 544	7 358	7 655	2 223	2 223	—	—
Textile machine operators	6 072	3 533	8 960	—	14 360	14 360	—	—	8 677	9 960	2 932	5 935	6 071	5 953	—	6 334
Textile sewing machine operators	8 717	5 959	5 320	—	5 959	5 320	—	6 226	4 725	4 801	2 458	5 935	—	—	—	—
Laundry and dry cleaning machine operators	9 115	8 553	12 485	—	3 804	4 506	2 784	2 307	4 812	4 532	7 537	3 257	—	—	—	—
Packaging and filling machine operators	7 404	6 669	—	—	7 185	7 185	—	—	3 315	3 440	1 615	3 076	—	—	—	—
Furnace, tan, and oven operators	7 404	7 260	—	—	9 527	9 527	—	—	6 245	6 245	—	—	—	—	—	—
Other specified machine operators	7 571	7 631	7 067	7 403	6 904	5 851	10 474	5 853	6 893	6 884	6 427	6 958	7 035	1 497	705	7 736
Miscellaneous and not specified machine operators	7 113	6 932	7 948	7 183	8 218	8 469	7 680	7 309	6 182	6 136	6 309	5 741	5 853	6 008	5 512	3 113
Fabricators, assemblers, and hand working occupations	5 403	5 403	—	4 305	8 165	7 964	11 652	5 165	5 720	5 459	6 587	8 235	6 149	5 749	8 007	4 005
Welders and cutters	7 906	7 143	—	—	8 724	8 724	—	—	5 842	5 530	6 001	5 127	7 049	7 879	14 335	1 005
Assemblers	6 041	6 041	—	4 305	7 732	8 326	4 005	5 165	5 810	5 505	6 297	8 900	8 033	8 033	9 467	5 740
Hand working occupations	7 681	7 716	—	4 801	6 606	7 174	14 005	—	5 403	5 290	11 522	4 351	7 386	6 955	9 467	5 740
Production inspectors, testers, samplers, and weighers	6 159	5 222	—	3 195	7 403	5 280	10 442	—	6 156	6 027	6 327	6 310	9 882	10 433	5 809	4 283
Graders and sorters, except agricultural	—	—	—	—	1 703	1 703	—	—	3 826	3 959	2 519	4 746	10 005	10 005	—	10 005
Other production inspectors, testers, samplers, and weighers	8 928	8 422	12 088	6 005	8 898	7 185	10 442	—	7 520	7 337	8 156	7 424	9 868	10 487	5 878	17 005
Transportation and material moving occupations	7 296	7 392	6 746	6 205	6 215	6 466	5 738	5 215	5 821	5 878	4 773	5 794	4 780	4 722	5 234	6 219
Transportation occupations	5 952	5 886	5 705	6 205	5 888	5 937	5 788	5 215	5 740	5 755	4 656	5 760	4 777	4 752	4 998	6 458
Motor vehicle operators	5 912	5 886	5 725	6 205	5 826	5 957	5 553	5 215	5 720	5 710	4 921	5 760	4 777	4 752	4 998	6 458
Truck drivers	7 203	5 926	5 725	—	5 694	2 437	2 437	5 215	5 466	5 515	4 386	6 674	4 792	4 911	4 188	6 650
Drive-sales workers	5 785	5 785	—	6 205	6 306	1 205	8 857	—	6 415	5 567	5 742	6 204	4 808	4 719	5 260	6 327
Other motor vehicle operators	—	—	—	—	5 957	6 217	—	—	6 217	6 217	—	—	—	—	—	—
Rail and water transportation occupations	9 910	11 299	7 055	—	9 151	10 039	7 005	—	6 737	8 274	5 173	6 123	5 015	1 722	13 254	3 773
Material moving equipment operators	14 205	14 205	—	—	—	—	—	—	6 623	7 295	—	—	—	—	—	—
Supervisors, material moving equipment operators	—	—	—	—	—	—	—	—	10 005	10 005	—	—	—	—	—	—
Crane, hoist and winch operators	—	—	—	—	10 041	10 041	—	—	12 712	12 712	—	—	—	—	—	—
Excavating, grading, and dozer machine operators	—	—	—	—	8 780	10 038	5 005	—	1 874	1 874	—	—	—	—	—	—
Other material moving equipment operators	7 455	7 879	7 055	—	—	—	—	—	6 898	7 111	5 173	6 123	5 015	2 078	13 254	4 005
Handriers, equipment cleaners, helpers, and laborers	6 678	6 662	6 704	5 971	5 496	5 312	6 177	5 155	4 906	4 905	5 158	5 046	3 794	3 742	4 099	3 204
Supervisors, handlers, equipment cleaners, and laborers	13 689	14 313	6 705	—	6 728	4 586	—	—	12 755	14 449	6 974	10 005	7 675	7 675	6 085	—
n.e.c.	7 297	6 892	6 005	—	5 793	6 294	2 505	—	2 717	2 339	3 849	8 685	3 527	3 033	—	3 644
Construction laborers	6 694	6 876	6 146	—	6 902	6 913	6 858	—	4 022	3 715	2 989	2 989	6 261	6 261	—	—
Freight, stock, and material handlers	7 479	7 479	—	—	5 802	6 048	—	7 995	5 427	5 706	4 751	5 681	3 791	3 835	3 890	3 138
Garage and service station occupations, and equipment cleaners	7 978	7 883	9 005	7 205	8 248	4 884	8 248	—	4 829	4 836	4 947	5 713	2 690	4 077	5 420	4 025
Hand packers and packagers	5 053	4 588	6 520	2 885	5 151	5 087	5 510	4 807	4 821	4 808	5 122	4 305	4 076	3 660	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Race, Spanish Origin, and Sex:
1980—Cont.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	12 624	12 806	10 101	10 853	10 158	10 747	7 211	8 288	11 310	12 084	7 446	8 979	12 305	12 740	8 970	9 833
Managerial and professional specialty occupations	20 064	20 329	12 106	18 538	16 974	17 280	13 317	14 048	17 607	18 066	13 344	13 904	17 204	17 630	13 255	13 368
Executive, administrative, and managerial occupations	20 281	20 528	12 213	18 993	17 375	17 719	12 988	14 371	15 511	15 111	14 056	14 196	18 764	19 359	11 027	14 290
Officials and administrators, public administration	21 203	21 708	5 505	—	23 809	24 541	14 209	18 688	24 187	24 444	10 005	10 333	25 259	29 995	—	19 346
Financial managers	21 891	22 140	—	17 482	22 800	22 858	10 869	22 806	20 615	20 860	12 481	10 492	24 918	25 376	20 807	23 516
Managers, marketing, advertising, and public relations	15 254	15 254	—	—	16 079	16 079	—	—	16 975	15 365	24 440	17 467	22 793	23 445	11 675	24 096
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	20 946	21 550	9 696	—	16 887	17 253	12 285	16 877	19 263	19 734	15 098	13 611	18 674	19 045	16 767	10 997
Other specified managers	20 340	20 571	12 728	19 770	18 971	18 298	13 422	14 444	19 737	20 446	13 141	14 517	18 577	19 195	10 569	14 020
Managers and administrators, n.e.c.	23 128	23 378	13 822	22 900	18 576	19 028	12 097	13 842	20 894	21 563	12 911	14 244	18 674	19 315	10 727	14 051
Self-employed	15 786	15 918	10 823	13 013	16 150	16 087	25 740	20 553	17 728	18 363	13 466	14 966	17 894	18 369	9 247	13 824
Management related occupations	17 523	17 986	10 086	12 713	12 002	12 136	11 195	12 329	16 640	17 588	8 229	10 487	18 738	19 192	14 281	15 194
Accountants and auditors	19 162	19 944	14 148	14 148	10 559	10 559	10 482	11 020	15 916	17 472	13 483	12 050	17 169	17 538	12 722	17 775
Personnel, training, and labor relations specialists	17 261	18 065	11 746	10 098	16 858	18 086	12 666	12 546	17 061	17 769	9 083	12 078	17 071	17 424	14 077	18 679
Buyers and purchasing agents	16 665	16 881	11 714	19 005	13 314	13 183	10 391	13 146	16 537	17 168	9 695	—	15 569	20 065	19 383	8 744
Inspectors and compliance officers	11 791	11 266	—	19 005	11 589	11 589	—	—	12 995	12 995	—	—	19 640	15 783	26 525	—
Other management related occupations	20 114	20 114	—	—	26 183	28 802	24 818	35 675	17 634	17 869	5 005	—	20 380	20 822	14 850	12 984
Professional specialty occupations	17 885	18 267	11 422	12 546	12 795	12 673	15 507	12 242	11 943	12 045	10 418	13 327	16 195	16 481	14 485	12 969
Engineers, architects, and surveyors	18 973	19 338	14 410	8 960	16 319	17 523	11 507	11 184	15 155	15 213	12 419	18 727	18 422	18 362	14 569	15 866
Architects	20 914	20 914	—	—	18 621	22 422	7 005	6 405	24 161	22 831	—	—	14 313	14 330	40 005	40 005
Engineers	19 102	19 470	14 410	8 960	16 208	17 257	11 793	11 450	14 469	14 731	12 419	18 727	18 613	18 537	21 891	15 068
Civil engineers	10 455	10 011	15 005	—	14 141	14 839	—	8 899	11 059	10 077	6 005	—	16 422	17 179	2 019	2 019
Electrical and electronic engineers	20 551	21 153	8 900	10 210	17 121	19 419	9 645	15 211	11 242	13 860	—	—	16 636	16 417	21 973	14 907
Industrial engineers	18 800	18 800	—	—	21 644	21 342	20 005	11 953	13 841	13 001	14 092	13 005	24 181	24 464	23 641	23 641
Mechanical engineers	19 007	19 679	19 794	3 268	15 475	16 692	12 829	11 097	13 812	13 800	—	22 369	21 805	22 314	21 005	40 010
Other engineers	18 192	18 180	—	15 855	14 841	16 832	15 005	8 697	17 450	17 598	—	—	21 415	21 219	—	16 435
Surveyors and mapping scientists	1 915	2 047	—	—	6 672	6 672	—	—	13 202	13 202	—	—	21 505	21 505	—	—
Computer systems analysts and scientists	16 472	16 472	—	—	33 905	33 917	—	—	16 851	15 921	—	—	19 456	19 592	18 198	13 667
Operations and systems researchers and analysts	17 930	21 817	9 185	—	21 005	23 932	—	14 005	20 842	21 545	19 435	—	25 799	25 168	38 005	38 005
Mathematical scientists	—	—	—	—	14 889	14 889	—	—	21 135	21 135	—	—	23 812	21 593	31 580	31 580
Natural scientists	12 013	12 013	—	40 005	10 564	10 338	11 291	11 188	11 188	11 188	—	—	14 262	14 993	4 205	15 421
Chemists, except biochemists	6 705	6 705	—	—	—	—	—	—	10 457	10 457	—	—	19 628	19 628	18 285	18 285
Other natural scientists	13 405	13 405	—	40 005	10 564	10 338	11 291	11 188	11 188	11 188	—	—	14 262	14 993	4 205	15 421
Health diagnosing occupations	7 005	7 005	—	—	—	—	—	—	10 457	10 457	—	—	19 628	19 628	18 285	18 285
Health assessment and treating occupations	—	—	—	—	—	—	—	—	10 457	10 457	—	—	19 628	19 628	18 285	18 285
Registered nurses	—	—	—	—	—	—	—	—	10 457	10 457	—	—	19 628	19 628	18 285	18 285
Other health assessment and treating occupations	—	—	—	—	—	—	—	—	10 457	10 457	—	—	19 628	19 628	18 285	18 285
Teachers, except postsecondary	9 282	8 632	—	18 005	7 185	7 130	8 298	3 459	5 584	5 367	8 615	6 545	11 821	12 058	6 079	8 185
Social scientists and urban planners	26 487	26 487	—	—	18 813	18 968	15 005	18 005	20 075	19 893	10 505	12 818	34 728	36 497	13 298	12 755
Social and recreation workers	—	—	—	—	6 103	6 518	2 033	2 894	10 677	10 681	—	—	7 671	7 846	7 924	6 077
Lawyers and judges	—	—	—	—	48 942	51 635	28 005	19 005	28 978	28 978	—	—	37 532	37 532	20 285	20 285
Writers, artists, entertainers, and athletes	15 137	15 850	1 639	12 551	13 324	12 818	28 361	14 612	12 321	12 473	10 423	14 282	16 834	17 078	15 877	13 509
Other professional specialty occupations	14 602	14 602	—	—	7 776	7 969	5 437	8 005	11 431	10 905	6 365	15 745	11 858	12 136	9 184	13 116
Technical, sales, and administrative support occupations	14 098	14 931	10 900	11 279	8 486	8 534	8 317	7 839	11 154	11 604	7 805	8 329	11 142	11 974	8 502	9 036
Technicians and related support occupations	12 000	12 146	10 247	10 701	14 239	15 259	7 184	10 658	12 474	12 840	9 080	9 432	17 800	17 010	16 305	17 881
Health technicians and technicians	12 870	15 639	8 005	515	14 574	14 574	—	—	5 688	5 688	9 875	4 731	12 591	12 591	20 005	20 005
Licensed practical nurses	—	—	—	—	—	—	—	—	5 688	5 688	9 875	4 731	12 591	12 591	20 005	20 005
Other health technicians and technicians	12 870	15 639	8 005	515	14 574	14 574	—	—	5 688	5 688	9 875	4 731	12 591	12 591	20 005	20 005
Engineering and science technicians	13 024	13 281	11 904	10 322	13 185	14 652	6 843	10 658	11 507	11 784	9 044	10 165	18 968	16 972	18 568	13 544
Electrical and electronic technicians	12 925	13 227	11 904	10 019	17 685	18 314	—	19 286	14 329	15 156	—	7 903	16 455	16 282	20 777	9 952
Industrial and mechanical engineering technicians	11 410	9 994	—	18 205	13 563	13 563	—	8 405	13 844	13 844	—	—	19 959	19 959	13 005	11 755
Drafting and surveying technicians	11 519	11 519	—	—	11 190	12 098	4 260	7 362	10 189	10 704	9 044	8 338	40 159	14 416	13 005	11 755
Other engineering and science technicians	15 171	15 404	—	—	10 679	11 945	—	—	10 538	10 716	—	13 001	19 500	20 109	12 423	18 530
Technicians, except health, engineering, and science	11 168	11 221	8 978	11 147	15 055	16 072	7 633	7 362	13 169	13 594	10 256	9 604	16 973	17 235	14 206	21 531
Airplane pilots and navigators	15 774	15 774	—	—	20 807	20 807	—	—	11 092	11 092	—	—	23 710	23 710	15 881	48 005
Air traffic controllers and broadcast equipment operators	16 114	15 802	—	16 010	19 765	21 544	13 005	—	12 873	14 261	—	—	16 137	16 239	19 255	26 635
Computer programmers	12 359	12 359	—	—	13 822	15 126	7 241	—	12 873	14 261	—	—	16 580	15 851	17 683	14 065
Other technicians, except health, engineering, and science	11 066	11 123	8 978	10 925	10 695	11 432	5 505	—	13 276	13 699	10 256	9 604	17 236	17 763	11 638	14 065

¹Persons of Spanish origin may be of any race.

in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:

are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
16 468	16 657	12 398	12 398	12 549	12 625	13 364	8 746	9 764	12 280	12 640	7 967	8 507	9 630	9 881	6 975	6 506
18 094	18 217	16 777	16 777	13 027	17 024	17 203	16 929	12 932	17 290	17 405	16 681	12 737	14 916	15 039	14 555	11 963
18 669	18 853	16 853	16 853	12 082	17 366	17 312	18 073	12 620	17 161	17 428	15 650	11 805	14 794	14 907	14 158	11 963
16 325	16 310	6 699	6 699	14 381	16 023	16 372	9 085	13 079	18 505	17 355	18 061	14 409	15 694	15 940	15 504	8 387
13 430	13 448	13 448	13 448	18 849	16 003	16 003	15 130	10 732	18 505	19 650	18 061	7 243	14 087	14 418	10 914	5 710
21 438	21 438	21 438	21 438	13 453	28 205	28 205	5 419	8 621	15 658	15 658	6 664	11 005	12 858	12 858	5 992	5 992
12 772	12 772	12 772	12 772	32 465	8 059	8 059	5 719	9 621	11 004	11 429	5 897	7 251	8 213	8 427	6 103	6 103
10 004	10 004	10 004	10 004	35 005	7 804	7 804	9 910	3 960	13 327	13 327	8 839	7 269	8 048	8 225	5 704	5 704
12 970	12 970	12 970	12 970	35 005	7 775	7 775	3 981	3 960	13 199	12 571	13 199	11 477	16 550	16 550	5 303	5 303
12 732	12 732	12 732	12 732	10 845	7 612	7 514	8 292	7 356	8 446	8 832	6 799	9 937	10 723	11 025	8 219	9 511
12 228	12 387	14 121	14 121	20 717	13 322	13 828	10 248	12 153	14 038	14 041	13 279	12 821	16 717	17 096	12 747	15 655
14 848	14 922	12 605	12 605	11 616	12 716	13 263	11 791	6 001	14 620	14 527	4 594	13 775	12 960	13 154	10 208	11 248
51 658	56 191	56 191	56 191	12 045	8 749	8 235	9 595	5 725	8 410	9 036	4 594	4 646	12 495	13 451	5 846	9 392
73 757	73 757	73 757	73 757	12 045	8 749	8 235	9 595	5 725	8 410	9 036	4 594	4 646	12 495	13 451	5 846	9 392
79 766	11 023	11 023	11 023	12 045	8 749	8 235	9 595	5 725	8 410	9 036	4 594	4 646	12 495	13 451	5 846	9 392
2 178	2 541	2 541	2 541	3 005	6 268	6 304	2 508	5 725	8 410	9 036	4 594	4 646	12 495	13 451	5 846	9 392
8 868	8 868	8 868	8 868	3 005	6 268	6 304	2 508	5 725	8 410	9 036	4 594	4 646	12 495	13 451	5 846	9 392
12 330	12 330	12 330	12 330	10 299	5 670	6 393	8 917	6 602	5 052	4 897	2 601	5 055	10 046	10 826	3 506	6 991
10 562	10 181	15 266	15 266	10 299	4 832	5 426	4 384	1 518	7 781	7 040	10 005	9 000	10 816	10 816	10 816	3 645
10 844	11 175	2 294	2 294	11 267	9 121	8 976	10 335	8 783	8 904	9 396	10 224	15 159	15 159	15 299	10 244	9 765
10 138	10 138	10 138	10 138	8 825	8 825	8 668	7 867	10 336	8 421	6 763	4 788	10 005	12 440	12 440	29 005	4 962
12 395	13 075	1 805	1 805	13 275	14 514	14 514	7 818	11 151	6 288	4 788	4 105	14 005	11 894	12 612	9 905	5 705
4 738	4 738	4 738	4 738	4 925	4 616	4 616	6 268	8 809	8 251	9 827	4 105	2 670	9 991	10 209	9 159	11 093
8 831	8 782	15 005	15 005	6 838	7 041	7 041	7 400	8 869	9 932	9 518	10 725	10 642	6 608	6 234	22 734	11 093
11 450	11 445	11 445	11 445	18 759	20 075	20 075	5 835	12 643	9 796	9 649	10 725	10 642	6 608	6 234	22 734	11 093
9 082	8 691	12 790	12 790	6 611	8 803	8 226	10 731	8 176	6 505	6 910	7 080	6 844	10 110	10 895	12 162	12 162
10 361	10 311	9 379	9 379	11 264	8 824	8 226	10 731	6 153	6 505	6 910	7 080	6 844	10 110	10 895	12 162	12 162
10 876	10 830	11 543	11 543	11 735	8 076	8 226	10 731	6 153	6 505	6 910	7 080	6 844	10 110	10 895	12 162	12 162
16 341	16 598	8 845	8 845	10 085	12 874	12 819	2 809	13 612	13 261	13 511	10 759	17 010	9 662	9 662	11 670	14 674
12 500	19 685	6 005	6 005	10 538	9 687	8 711	12 719	6 834	11 549	15 578	7 922	7 747	13 285	13 682	5 738	11 905
10 081	10 177	8 869	8 869	8 889	7 532	7 704	7 862	6 834	7 178	7 620	5 617	9 935	8 935	9 131	7 710	6 016
8 453	8 542	8 305	8 305	8 889	7 532	7 704	7 862	6 834	7 178	7 620	5 617	9 935	8 935	9 131	7 710	6 016
7 939	9 005	7 678	7 678	8 889	8 806	8 783	8 720	7 515	9 648	10 270	6 387	9 227	6 525	6 565	6 103	6 895
7 806	7 806	7 806	7 806	8 889	8 806	8 783	8 720	7 515	9 648	10 270	6 387	9 227	6 525	6 565	6 103	6 895
10 607	10 607	10 607	10 607	8 889	8 806	8 783	8 720	7 515	9 648	10 270	6 387	9 227	6 525	6 565	6 103	6 895
8 405	8 405	8 392	8 392	3 921	13 114	13 884	10 601	13 871	6 927	7 138	5 992	9 726	6 495	6 402	7 278	7 255
14 805	14 805	11 376	11 376	3 921	13 114	13 884	10 601	13 871	6 927	7 138	5 992	9 726	6 495	6 402	7 278	7 255
8 531	8 531	8 096	8 096	10 765	7 353	7 353	6 376	7 498	10 339	10 799	7 722	9 825	11 077	11 050	12 311	10 038
9 067	8 996	11 205	11 205	2 625	6 434	6 880	7 282	8 221	5 044	5 718	3 372	9 363	6 796	6 884	6 951	7 801
10 880	10 993	2 266	2 266	4 447	9 186	9 637	7 282	8 221	10 924	11 302	7 701	10 253	6 545	6 180	5 883	6 999
12 047	12 149	10 365	10 365	10 838	6 167	6 006	5 947	6 793	4 200	4 374	3 467	4 683	8 235	8 344	7 200	8 319
12 091	12 174	10 442	10 442	10 838	6 167	6 006	5 947	6 793	4 200	4 374	3 467	4 683	8 235	8 344	7 200	8 319
19 160	19 249	8 508	8 508	10 722	11 430	11 458	10 746	10 172	10 358	10 742	8 057	9 337	12 039	12 152	10 434	12 404
11 881	12 028	14 022	14 022	12 516	10 738	10 499	14 402	11 047	10 505	10 732	8 578	11 473	9 872	9 885	8 670	9 900
13 838	14 022	11 129	11 129	13 566	10 444	10 377	12 605	18 063	12 765	13 207	9 396	5 873	15 703	16 055	5 205	15 541
10 880	10 946	9 611	9 611	10 059	10 520	9 267	34 507	8 216	9 500	9 741	8 064	11 112	9 267	9 316	15 794	9 316
14 635	14 882	10 483	10 483	12 191	14 831	15 088	1 045	14 173	13 023	13 023	13 023	13 635	13 543	14 152	5 798	8 157
11 559	11 702	10 130	10 130	10 148	12 255	12 038	15 999	10 327	13 728	17 825	10 176	15 860	14 669	14 669	18 494	19 505
12 984	13 109	11 007	11 007	10 979	9 116	9 898	8 560	11 163	10 372	10 596	9 501	13 637	9 501	9 501	8 331	9 596
18 893	19 133	12 291	12 291	8 849	10 818	10 986	8 412	9 328	7 756	8 190	5 812	5 637	14 832	15 133	11 948	14 736
10 153	10 281	9 443	9 443	6 669	14 525	14 597	9 655	10 592	14 475	15 388	14 255	10 575	19 924	20 558	9 921	28 384
13 898	13 972	12 972	12 972	11 931	10 864	11 080	6 963	10 592	7 440	8 252	3 253	4 679	14 354	14 243	16 234	14 860
9 519	9 519	3 584	3 584	8 911	12 583	12 459	12 810	9 910	10 984	11 509	5 967	6 205	16 482	16 630	16 734	29 578
14 774	15 044	11 474	11 474	9 983	8 718	8 804	5 564	9 198	6 695	5 594	4 892	6 205	11 386	12 286	5 813	10 716
11 722	11 694	10 517	10 517	17 284	10 470	10 761	10 509	8 651	6 911	7 705	1 005	2 505	15 605	16 043	10 128	11 481
					10 879	11 003	10 634	7 511	9 921	9 956	10 550	5 756	12 497	13 330	10 817	11 458

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total	Race		Spanish origin ¹	Total
	White	Black			White	Black			White	Black			White	Black		
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	10 712	11 158	5 205	11 112	13 219	13 476	11 274	10 932	4 809	5 215	2 105	15 219	15 889	12 490	13 005	
Precision production occupations	11 445	11 842	10 048	11 842	13 313	13 476	11 274	10 932	8 010	11 228	8 431	16 304	16 954	11 559	15 525	
Supervisors, production occupations	18 822	19 093	10 993	18 533	13 313	13 476	11 274	10 932	14 584	14 769	12 050	17 877	17 877	11 540	18 213	
Precision metalworking occupations	14 294	14 516	9 086	11 853	12 843	12 887	15 272	9 155	2 805	2 805	7 410	13 077	13 373	9 379	19 553	
Tool and die makers	11 842	11 013	11 731	13 672	12 193	11 868	15 272	10 305	11 951	14 949	7 410	14 416	14 416	10 097	12 761	
Machine tool workers	12 025	12 206	9 910	13 444	15 102	15 862	15 272	10 305	5 736	4 741	—	22 483	21 645	10 097	36 108	
Other precision metal workers	14 767	15 088	9 988	12 064	15 102	15 862	15 272	10 305	17 816	17 816	—	22 483	21 645	10 097	36 108	
Precision textile, apparel, and furnishings machine workers	19 497	19 994	10 994	12 064	15 102	15 862	15 272	10 305	9 526	9 808	7 340	13 130	13 880	7 325	15 815	
Precision food production occupations	7 785	7 334	21 800	6 706	10 512	10 290	7 289	10 855	11 648	11 648	—	10 534	10 534	16 295	9 649	
Precision inspectors, testers, and related workers	21 688	23 516	8 711	18 524	13 959	14 228	12 215	9 763	8 091	7 192	9 170	11 210	11 210	14 035	12 005	
Plant and system operators	15 981	14 724	18 737	8 731	13 959	14 228	12 215	9 763	14 965	16 110	8 442	17 699	18 391	14 035	9 912	
Other precision production occupations	9 363	9 465	8 659	9 247	8 138	6 406	12 330	11 291	6 869	8 823	—	21 658	23 292	10 005	26 829	
Operators, fabricators, and laborers	12 055	12 324	9 479	10 159	7 382	7 750	6 114	7 479	9 333	9 983	7 379	10 687	10 993	8 650	9 486	
Machine operators, assemblers, and inspectors	12 703	12 974	10 080	10 758	8 016	8 830	6 021	7 079	9 987	9 638	7 458	12 176	12 303	11 580	10 739	
Machine operators and tenders, except precision	10 605	10 635	11 401	8 408	7 713	8 449	6 021	6 849	9 016	9 685	7 488	12 306	12 418	11 681	10 904	
Metalworking and plastic working machine operators	9 589	9 555	13 123	6 484	7 943	7 882	8 159	6 849	7 907	9 856	3 943	10 090	9 764	12 005	6 005	
Forming machine operators, n.e.c.	14 099	14 555	4 805	—	5 805	—	—	—	—	—	—	6 305	6 305	705	6 005	
Metal and plastic processing and woodworking machine operators	10 847	10 846	13 200	9 465	9 677	9 658	9 935	6 135	6 135	6 288	4 782	10 479	9 951	19 005	35 005	
Printing machine operators	10 954	12 832	5 033	13 783	12 188	15 463	5 405	—	9 785	10 278	9 046	14 556	15 677	7 14	12 525	
Textile machine operators	4 777	9 072	19 005	3 910	6 319	9 605	—	—	5 596	5 843	4 946	28 904	7 210	120 500	9 747	
Textile sewing machine operators	3 904	3 416	5 005	—	6 062	6 339	5 419	6 509	9 457	10 026	7 680	4 623	4 623	1 175	5 997	
Laundry and dry cleaning machine operators	21 569	21 569	—	—	6 005	6 005	—	—	3 425	4 231	—	12 360	12 355	12 385	—	
Furnace, kiln, and oven operators, except food	12 568	12 839	11 878	—	15 171	15 464	11 156	—	12 791	13 697	13 911	12 806	12 121	11 392	—	
Other specified machine operators	8 496	6 017	7 292	6 456	8 934	9 164	8 009	9 196	7 674	8 092	6 289	9 120	9 120	8 156	9 137	
Miscellaneous and not specified machine operators	12 364	12 424	10 963	11 364	8 901	9 988	5 814	9 146	8 133	9 044	—	9 955	10 261	10 794	11 582	
Fabricators, assemblers, and hand working occupations	13 110	13 432	9 811	11 114	9 711	10 609	9 686	9 012	7 791	7 401	5 703	9 955	10 261	10 794	11 582	
Welders and cutters	13 281	13 610	9 854	11 251	11 280	12 285	9 694	8 298	13 285	11 358	7 432	11 725	11 382	14 487	24 005	
Solders and brazers	8 264	11 702	8 594	5 946	2 885	4 905	—	—	13 285	6 905	—	2 006	8 148	9 144	10 106	
Assemblers	9 712	9 938	8 594	8 648	8 894	9 332	7 605	10 594	4 806	5 048	10 324	8 148	8 730	8 005	15 005	
Hand working occupations	8 957	8 957	—	8 933	8 335	9 442	1 555	7 127	7 127	6 067	—	10 110	10 712	8 005	15 005	
Production inspectors, testers, samplers, and weighers	14 245	14 615	8 449	11 179	11 543	12 229	8 605	10 070	7 097	7 654	5 528	12 562	12 791	10 305	9 005	
Graders and sorters, except agricultural	5 404	4 415	2 435	11 045	9 437	10 500	9 505	8 505	5 862	5 719	6 405	5 338	3 646	10 305	9 005	
Other material production occupations	15 235	15 462	10 167	11 243	11 879	12 343	8 005	10 623	7 239	7 902	5 448	14 852	15 222	—	—	
Transportation and material moving occupations	11 136	11 353	9 096	8 491	7 361	7 725	5 753	8 037	11 349	11 788	8 588	9 829	10 151	8 039	8 204	
Motor vehicle occupations	10 978	11 247	9 192	7 955	7 230	7 600	5 746	8 037	11 374	11 792	8 700	9 683	10 045	7 828	7 095	
Truck drivers	10 915	11 214	9 192	7 955	7 246	7 600	5 746	8 037	11 374	11 792	8 700	9 683	10 045	7 828	7 095	
Driver-sales workers	15 310	15 815	7 325	8 405	11 403	12 689	7 118	15 485	10 803	11 202	10 634	12 362	13 107	8 961	7 902	
Other motor vehicle occupations	8 306	8 943	5 197	—	6 750	7 153	5 121	8 177	9 480	9 942	7 789	11 609	11 778	8 745	7 005	
Rail and water transportation occupations	15 152	14 823	8 416	10 603	6 322	7 283	5 130	4 716	13 589	13 589	—	8 047	8 256	7 033	6 271	
Supervisors, material moving equipment operators	11 824	11 729	8 416	10 603	6 322	7 283	5 130	4 716	9 721	11 474	5 709	15 805	15 805	9 200	10 870	
Crane, hoist and winch operators	14 769	14 769	—	18 605	16 005	12 469	—	—	13 034	15 005	1 205	15 805	15 805	9 200	10 870	
Excavating, grading, and dozer machine operators	12 370	12 370	8 905	10 790	6 849	6 849	—	10 005	2 771	4 140	151	14 788	14 788	9 181	11 005	
Other material moving equipment operators	10 589	9 974	8 338	8 560	9 172	9 362	6 032	4 309	10 296	11 883	6 945	10 406	10 484	9 202	10 862	
Handlers, equipment cleaners, helpers, and laborers	8 975	9 171	7 488	7 295	6 882	6 978	6 577	7 490	5 542	5 672	5 251	9 241	9 658	6 690	8 760	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	20 981	20 981	—	5 835	8 819	9 530	5 975	14 919	15 828	9 005	23 505	23 771	24 016	4 561	11 962	
Helpers, craft and production	5 904	7 407	—	8 835	6 245	6 448	5 671	8 141	4 871	5 154	3 182	5 186	4 614	3 328	5 328	
Construction laborers	12 776	13 341	9 885	7 760	7 250	7 153	5 292	7 398	4 764	5 695	2 826	10 441	10 441	9 816	11 854	
Freight, stock, and material handlers	4 980	4 800	7 177	1 623	9 210	10 377	5 292	7 398	4 917	4 552	5 885	14 063	14 637	10 034	13 361	
Garage and service station occupations, and equipment cleaners	10 177	10 433	6 978	10 435	7 375	7 714	7 670	7 504	6 539	6 138	8 703	4 333	4 458	3 358	8 529	
Hand packers and packagers	6 683	7 169	4 449	7 626	14 502	19 872	5 105	7 584	5 478	5 478	3 855	6 248	4 936	5 248	7 705	
Laborers, except construction	10 123	10 415	7 933	7 626	6 004	5 671	6 794	7 584	5 536	5 781	5 004	5 984	5 939	5 570	7 221	

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Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	5 972	5 871	6 231	5 625	4 898	4 854	4 814	4 623	4 468	4 671	3 775	4 466	6 057	6 079	5 767	5 736
Managerial and professional specialty occupations	9 446	9 445	9 216	7 746	8 564	8 563	8 254	8 194	7 304	7 213	8 198	7 175	8 122	8 109	8 597	8 597
Executive, administrative, and managerial occupations	9 960	9 985	9 822	7 074	8 615	8 599	8 521	8 372	8 838	8 824	8 994	8 205	9 573	9 668	8 311	8 043
Officials and administrators, public administration	10 762	10 762	—	—	13 575	13 553	6 182	11 387	12 822	13 296	9 555	25 005	14 180	14 501	6 559	10 005
Financial managers	10 109	10 109	—	10 005	12 357	12 435	8 485	10 199	8 830	8 754	12 360	15 658	12 546	12 631	10 592	16 263
Managers, marketing, advertising, and public relations	7 005	7 005	—	—	6 369	6 369	—	—	10 531	11 216	7 755	—	10 714	10 419	—	—
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	13 994	15 807	4 815	—	9 015	9 251	6 890	9 217	10 549	10 795	9 509	6 786	10 225	10 470	8 144	7 624
Managers and administrators, n.e.c.	9 789	9 808	10 004	6 887	8 328	8 271	9 998	8 100	8 436	8 438	8 465	8 206	9 066	9 166	7 833	7 624
Soldiers	11 343	11 523	7 758	7 154	9 795	8 804	9 175	7 782	8 850	8 950	7 744	8 615	9 114	9 220	7 877	7 457
Self-employed	6 990	6 761	16 180	5 930	7 064	6 862	6 887	10 053	7 483	7 001	10 782	8 711	8 646	8 711	7 007	5 803
Management related occupations	10 164	10 060	12 483	—	8 609	8 652	7 101	9 062	10 202	10 071	11 429	5 823	11 712	11 717	11 875	10 173
Accountants and auditors	10 531	10 499	11 533	—	8 106	8 023	6 996	8 621	9 289	9 143	9 419	8 666	11 456	11 383	10 397	11 429
Personnel, training, and labor relations specialists	10 994	10 937	10 925	—	8 828	10 226	8 076	9 070	11 657	11 388	13 521	8 361	9 282	9 292	9 099	8 340
Buyers and purchasing agents	8 315	7 630	14 273	—	11 267	11 420	7 736	9 485	11 735	12 079	10 659	5 505	10 207	10 123	12 905	10 206
Inspectors and compliance officers	—	—	—	—	6 579	8 880	1 210	16 128	5 262	4 165	8 005	—	10 506	9 199	13 287	—
Other management related occupations	10 470	10 470	—	—	9 173	9 224	—	—	9 436	9 647	5 112	4 510	13 245	13 217	15 959	11 442
Professional specialty occupations	5 680	5 379	5 514	11 321	8 032	8 173	6 395	6 153	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Engineers, architects, and surveyors	10 005	10 005	—	—	11 906	11 906	—	—	6 540	5 047	—	—	6 464	6 423	—	22 005
Architects	—	—	—	—	11 144	11 144	—	—	5 540	5 540	—	—	11 746	6 047	—	—
Engineers	10 005	10 005	—	—	12 483	12 483	—	—	6 152	6 152	—	—	7 776	7 776	—	—
Electrical and electronic engineers	—	—	—	—	1 425	1 425	—	—	—	—	—	—	2 505	2 505	—	—
Industrial engineers	—	—	—	—	—	—	—	—	—	—	—	—	6 936	6 936	—	—
Mechanical engineers	—	—	—	—	10 346	10 346	—	—	—	—	—	—	15 405	15 405	—	—
Other engineers	—	—	—	—	15 238	15 238	—	—	11 009	11 009	—	—	4 006	4 006	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	5 124	5 124	—	—	5 315	5 315	—	—
Computer systems analysts and scientists	12 005	12 005	—	—	16 123	16 123	—	—	3 345	3 345	—	—	17 581	17 581	—	—
Operations and systems researchers and analysts	25 852	25 852	—	—	11 706	14 467	—	9 005	6 503	6 503	—	—	21 126	21 126	—	—
Mathematical scientists	13 005	13 005	—	—	10 095	9 963	—	—	11 823	11 823	—	—	9 052	9 052	—	—
Natural scientists	13 005	13 005	—	—	6 091	6 091	—	—	7 574	7 574	—	—	8 885	8 885	—	5 880
Chemists, except biochemists	13 005	13 005	—	—	6 091	6 091	—	—	—	—	—	—	21 096	21 096	—	—
Other natural scientists	13 005	13 005	—	—	—	—	—	—	7 574	7 574	—	—	7 897	7 897	—	5 880
Health diagnosing occupations	10 140	8 104	—	—	8 449	7 587	—	4 585	8 256	8 369	5 112	4 285	26 336	19 502	—	5 880
Health assessment and treating occupations	9 713	6 474	—	—	9 259	8 888	—	4 585	6 692	6 591	6 904	6 655	8 212	8 352	6 732	5 017
Registered nurses	11 635	11 635	—	—	6 670	4 664	—	—	6 778	6 668	6 668	7 693	10 467	10 467	—	5 017
Other health assessment and treating occupations	2 831	2 953	35	11 853	4 146	4 073	5 299	2 716	3 910	3 859	6 345	3 973	4 711	4 669	6 732	5 017
Teachers, except postsecondary	2 860	2 260	—	—	11 147	11 070	—	12 005	8 256	8 369	8 468	—	9 841	9 344	7 075	5 436
Social scientists and urban planners	9 821	9 821	—	—	7 960	9 160	4 803	4 15	5 898	5 418	5 295	3 982	5 819	5 575	7 208	3 457
Social and recreation workers	—	—	—	—	7 892	8 302	7 005	—	5 261	5 385	—	—	19 986	20 332	15 236	8 835
Writers and judges	—	—	—	—	9 715	9 959	7 800	9 221	15 840	15 840	—	—	8 911	8 919	9 812	9 288
Writers, artists, entertainers, and athletes	5 382	5 155	—	—	9 358	10 069	8 470	3 005	5 698	5 654	7 561	7 034	8 911	8 919	7 581	9 819
Other professional specialty occupations	6 037	4 962	—	6 005	9 358	10 069	8 470	3 005	6 013	5 981	6 364	—	7 814	7 918	—	—
Technical, sales, and administrative support occupations	5 642	5 595	6 690	5 734	6 357	6 286	6 581	6 475	4 866	4 805	5 308	4 919	5 738	5 746	5 622	5 408
Technicians and related support occupations	6 834	6 394	20 737	7 874	8 307	8 622	6 734	3 205	4 998	4 781	5 710	4 139	9 351	9 543	6 413	5 408
Health technologists and technicians	790	1 005	—	—	7 209	7 586	5 364	—	4 865	4 621	5 585	4 093	6 090	6 309	3 294	10 175
Licensed practical nurses	—	—	—	—	7 133	7 600	5 364	—	4 902	4 645	5 642	4 190	7 003	6 734	8 185	10 175
Other health technologists and technicians	790	1 005	—	—	7 538	7 538	—	—	2 989	3 553	213	2 061	5 598	6 669	2 683	—
Engineering and science technicians	8 200	7 048	12 005	9 505	7 316	7 513	—	—	6 582	6 531	7 434	6 005	8 724	9 057	4 496	8 056
Electrical and electronic technicians	7 446	4 492	12 005	9 505	8 302	8 302	—	—	9 097	9 099	—	6 005	8 533	8 512	—	8 056
Industrial and mechanical engineering technicians	8 385	8 385	—	—	—	—	—	—	—	—	—	—	8 555	8 555	—	—
Drafting and surveying technicians	5 985	5 985	—	—	8 302	8 302	—	—	—	—	—	—	9 271	9 271	—	—
Other engineering and science technicians	10 385	10 385	—	—	5 512	5 512	—	—	3 371	3 371	—	—	9 224	11 147	4 496	—
Technicians, except health, engineering, and science	6 750	6 377	27 881	7 004	9 543	9 879	7 486	3 205	6 133	5 751	9 043	4 637	10 319	10 412	9 006	9 767
Airplane pilots and navigators	—	—	—	—	5 667	6 247	—	—	5 405	—	—	5 405	8 005	8 005	—	—
Air traffic controllers and broadcast equipment operators	8 463	8 463	—	—	13 746	13 982	—	—	305	305	—	—	9 602	9 865	—	—
Computer programmers	10 975	3 349	33 005	—	6 728	6 706	—	—	8 096	7 778	12 005	—	11 317	11 191	10 755	—
Other technicians, except health, engineering, and science	6 255	6 339	4 825	7 004	6 728	6 706	6 843	—	5 907	5 497	8 827	4 331	10 144	10 318	8 558	9 767

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed females 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations	5 281	5 371	5 436	4 883	6 694	6 716	6 324	6 787	4 304	4 241	3 843	4 426
Supervisors and proprietors, sales occupations	9 142	9 235	—	6 855	9 307	9 291	8 192	6 761	7 819	7 961	3 868	4 712
Sales representatives, commodities, except retail	11 012	11 235	—	8 655	9 096	8 219	8 192	6 761	7 979	8 166	7 711	4 944
Sales representatives, finance and business services	7 093	7 574	—	435	4 999	4 999	—	5 566	7 380	7 334	3 356	3 207
Sales workers, retail and personal services	4 652	4 709	5 330	—	8 119	8 211	7 694	—	8 279	8 757	3 141	2 476
Cashiers	5 247	5 141	10 058	9 323	6 125	6 046	6 149	6 968	6 641	6 817	—	—
Gashiers	7 408	7 294	11 165	18 872	6 149	6 082	6 201	6 827	4 120	4 038	3 878	3 559
Other sales occupations, retail and personal services	4 587	4 559	8 750	762	5 379	4 864	4 763	10 250	3 664	3 545	3 789	3 347
Sales related occupations	437	—	437	8 505	8 505	8 505	—	—	8 767	9 880	4 235	4 812
Administrative support occupations, including clerical												
Supervisors, administrative support occupations	5 647	5 597	5 652	11 023	6 278	6 190	6 644	6 394	5 263	5 211	6 954	7 270
Computer equipment operators	8 449	8 626	8 408	8 855	9 860	9 675	10 364	8 140	10 941	8 935	10 974	8 570
Secretaries, stenographers, and typists	5 702	5 646	5 646	5 825	7 781	8 322	11 788	6 394	6 732	7 008	9 857	8 570
Secretaries	5 761	5 694	5 694	5 632	7 554	7 711	6 846	7 440	5 885	6 068	7 794	7 866
Stenographers and typists	4 944	4 973	5 050	5 571	7 716	7 711	7 161	7 866	6 439	6 470	7 844	8 369
Receptionists	3 818	3 599	4 432	5 531	5 050	5 056	5 480	8 869	4 626	4 256	6 462	4 966
Other information clerks	3 118	3 118	1 499	4 432	5 467	5 359	6 334	5 292	3 985	4 000	4 135	3 002
File clerks	3 451	3 354	4 520	5 338	5 338	5 252	5 838	3 176	3 176	3 199	4 957	4 745
Other records processing occupations, except financial	6 336	6 394	6 714	6 925	6 714	6 802	6 925	6 572	3 510	3 758	4 504	7 489
Bookkeepers, accounting, and auditing clerks	5 669	5 646	7 405	5 838	7 468	7 360	9 462	7 379	6 522	6 539	6 465	6 975
Payroll and timekeeping clerks	8 969	8 469	14 045	8 005	8 215	8 095	10 342	6 928	7 293	7 945	7 608	7 590
Other financial records processing occupations	6 862	6 862	7 736	7 005	7 282	7 013	10 035	7 510	5 934	6 942	7 987	7 751
Telephone operators	7 284	7 121	8 773	5 460	5 996	5 783	6 741	6 950	7 366	7 907	5 480	10 083
Mail and message distributing occupations	4 462	3 767	6 055	10 005	6 306	5 828	7 044	9 202	4 371	4 963	5 430	5 489
Production coordinators and expeditors	6 490	6 590	6 803	5 193	6 336	6 809	3 665	7 468	3 763	4 068	7 501	8 984
Traffic, shipping, and receiving clerks	6 879	6 803	8 884	5 005	6 336	6 097	6 005	6 800	3 140	4 869	8 501	1 161
Stock and inventory clerks	6 299	6 267	7 444	9 181	5 844	5 838	5 005	8 005	5 383	5 261	7 369	4 500
Other material recording, scheduling, and distributing clerks	7 416	7 444	8 884	8 884	4 562	4 220	4 929	5 617	5 233	5 107	6 583	5 500
Adjusters and investigators	7 061	7 453	9 585	9 005	5 890	5 780	6 843	5 617	3 736	3 441	6 583	4 445
Date-entry keyers	7 946	7 946	8 726	5 905	8 764	8 384	5 963	8 430	5 472	5 472	7 580	6 304
Other administrative support occupations	5 240	5 222	6 583	6 419	5 940	5 803	6 115	6 469	6 537	6 823	8 097	11 086
Service occupations												
Private household occupations	4 361	4 298	4 072	2 566	3 958	3 707	4 485	4 152	4 187	4 458	4 237	4 305
Protective service occupations	2 805	—	—	—	4 591	4 463	—	6 174	2 674	2 364	—	4 450
Guards	2 805	—	—	—	4 458	4 310	4 394	6 174	2 512	2 221	2 947	2 594
Other protective service occupations	—	—	—	—	9 727	9 727	—	10 732	2 553	2 243	3 024	2 594
Service occupations, except protective and household	4 377	4 298	4 072	2 566	3 956	3 704	4 485	4 148	2 254	2 016	3 887	4 445
Food preparation and service occupation	5 896	5 896	8 005	—	3 956	3 704	4 485	4 148	5 702	5 753	4 283	4 339
Health service occupations	6 005	6 005	8 005	—	3 222	3 222	5 472	3 507	4 096	4 096	4 156	4 194
Cleaning and building service occupations, except household	3 759	3 344	4 384	2 566	3 183	3 447	4 519	3 507	4 110	3 648	5 561	2 660
Personal service occupations	5 102	5 669	2 121	—	3 998	2 898	4 319	4 148	3 362	3 174	4 236	4 093
Forming, forestry, and fishing occupations												
Precision production, craft, and repair occupations	1 541	1 577	—	—	2 689	2 515	1 827	6 018	3 633	3 450	4 353	4 549
Mechanics and repairers	5 590	5 417	6 401	5 916	6 916	6 470	8 478	5 875	4 626	4 503	7 613	9 440
Supervisors, mechanics and repairers	6 799	6 586	7 757	5 662	6 992	7 275	3 705	6 723	6 326	6 407	7 334	8 256
Automobile mechanics, including body	12 034	11 647	14 005	9 005	12 034	11 546	—	—	21 085	21 085	3 523	5 200
Industrial machinery repairers	6 216	6 243	5 047	8 005	12 144	12 144	—	—	2 464	2 464	4 327	3 115
Electronic repairers, communications and industrial equipment	6 795	6 760	7 762	4 033	7 421	7 421	—	7 938	6 210	6 210	8 726	—
Heating, air conditioning, and refrigeration mechanics	12 930	9 961	—	—	—	—	—	—	2 705	2 705	7 933	6 005
Other mechanics and repairers	6 533	6 391	7 682	5 867	6 626	7 038	3 705	1 255	6 075	6 245	7 264	6 095
Construction trades												
Supervisors, construction occupations	5 970	5 924	4 505	6 555	5 312	5 099	4 708	8 509	4 005	4 005	6 112	7 542
Carpenters	6 079	6 375	4 505	11 090	7 793	12 317	7 533	11 197	6 574	7 517	6 256	12 565
Electricians	10 167	10 167	—	—	—	921	—	—	3 836	3 494	5 507	7 680
Painters, construction and maintenance	4 346	4 346	—	—	4 645	4 901	—	—	12 885	12 885	5 791	—
Plumbers, pipefitters, and steamfitters	13 005	13 005	—	6 555	1 269	1 269	—	—	6 005	6 005	7 772	5 926
Other construction trades	4 125	4 125	—	—	6 638	4 766	—	—	4 243	4 243	1 070	—

Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Machine operators, assemblers, and inspectors	8 785	8 785	5 402	6 103	6 055	6 055	8 715	5 430	4 609	4 478	5 388	5 007	8 109	7 943	9 179	10 806
Machine operators and tenders, except precision	4 873	4 743	8 019	8 005	7 124	6 577	9 042	4 797	7 513	7 545	7 145	7 652	9 669	9 663	7 215	10 251
Supervisors, production occupations	8 363	6 023	8 873	—	7 333	6 661	8 005	—	4 237	3 719	4 829	6 584	5 973	5 992	5 725	—
Precision metalworking occupations	6 509	10 968	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tool and die makers	1 520	10 968	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Machinists	10 968	10 968	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheet metal workers	5 740	5 252	8 873	—	8 005	—	8 005	—	4 588	4 540	3 773	6 584	7 313	7 313	—	—
Other precision metal workers	4 784	4 644	5 313	—	6 661	—	—	—	—	—	—	—	15 005	15 005	—	—
Precision textile, apparel, and furnishings machine workers	4 665	4 295	7 335	6 333	5 435	5 290	7 755	3 531	3 880	3 129	6 565	—	7 396	4 475	5 725	—
Precision food production occupations	32 122	37 103	6 385	4 810	5 581	4 989	5 191	7 887	4 232	4 093	2 807	4 656	7 293	4 183	8 545	12 058
Precision inspectors, testers, and related workers	1 405	1 405	6 385	—	6 286	5 489	7 556	8 435	4 187	4 633	2 005	6 696	3 477	3 477	12 274	5 521
Plant and system operators	4 200	4 042	4 781	5 219	6 672	6 672	—	—	4 109	4 415	3 651	6 765	7 153	7 515	6 669	—
Other precision production occupations	5 609	5 794	5 139	4 942	4 595	4 342	4 883	4 514	5 001	4 757	5 434	—	9 001	6 110	4 303	6 001
Operators, fabricators, and laborers	5 782	5 893	5 370	5 346	4 651	4 387	4 957	4 531	5 029	4 802	5 411	4 957	7 408	7 432	5 210	7 393
Machine operators and tenders, except precision	5 899	5 993	4 124	5 979	4 625	4 406	4 861	4 534	5 009	4 776	5 395	4 950	7 408	7 432	5 518	7 393
Metalworking and plastic working machine operators	5 540	5 967	2 370	1 618	6 219	5 265	8 605	—	3 943	3 166	6 665	—	8 094	8 106	—	6 505
Fabricating machine operators, n.e.c.	7 327	7 327	—	—	4 505	4 505	—	—	1 494	1 494	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	9 942	12 065	9 305	7 005	4 362	3 160	14 158	1 790	2 591	2 324	2 904	3 791	5 916	6 620	—	—
Pruning machine operators	2 825	2 825	—	—	3 475	3 475	—	—	5 946	5 843	6 278	—	5 531	5 778	—	7 043
Textile machine operators	7 366	8 067	3 116	6 173	4 150	3 475	5 401	9 005	6 501	7 433	5 124	4 973	8 195	8 195	—	—
Textile sewing machine operators	4 766	4 766	—	—	4 305	6 249	—	6 183	5 243	5 104	5 829	5 226	3 948	3 725	2 331	4 839
Laundry and dry cleaning machine operators	4 079	2 917	6 315	—	4 518	4 323	4 706	4 507	4 924	4 404	5 524	5 043	5 293	4 505	6 887	6 927
Package and filling machine operators	3 693	2 864	—	—	—	—	—	—	4 042	3 688	5 624	—	—	—	—	—
Functor, klan, and oven operators	5 144	3 844	4 805	12 005	—	6 212	4 798	—	4 673	3 059	5 925	—	3 122	3 122	—	—
Other specified machine operators	4 240	4 237	4 805	6 295	5 156	5 629	6 062	3 734	5 055	4 811	5 253	4 811	9 173	9 202	5 842	8 739
Miscellaneous and not specified machine operators	7 849	7 951	5 191	6 379	5 771	5 629	—	5 624	5 647	5 268	6 247	4 742	5 472	5 613	4 737	5 170
Fabricators, assemblers, and hand working occupations	5 691	5 817	6 727	4 649	3 537	3 470	7 550	3 678	5 102	5 231	4 938	4 278	4 990	5 037	828	6 741
Welders and cutters	6 156	6 495	6 273	3 254	6 005	6 005	—	—	8 891	8 891	—	—	11 076	11 076	—	—
Solders and brazers	5 242	4 420	8 431	2 722	3 305	3 505	7 550	3 505	6 706	7 406	—	4 005	—	—	—	—
Assemblers	5 014	5 028	8 147	6 082	3 184	2 855	—	3 703	4 997	5 077	5 089	4 049	4 114	4 265	—	6 699
Hand working occupations	8 319	8 319	655	—	4 051	4 051	—	—	5 177	5 501	4 098	8 005	5 714	5 077	828	6 699
Production inspectors, testers, samplers, and weighers	4 008	4 427	—	—	5 824	3 887	7 308	5 365	5 427	5 215	5 821	5 438	7 214	5 113	—	6 823
Graders and sorters, except agricultural	2 435	2 435	—	—	3 646	3 868	3 003	85	6 324	7 038	5 463	6 005	2 582	2 582	8 005	15 005
Other production inspectors, testers, samplers, and weighers	5 896	7 591	655	—	6 141	3 891	7 637	7 345	5 403	5 169	5 831	5 429	9 207	7 612	8 005	15 005
Transportation and material moving occupations	5 478	5 240	9 512	1 338	5 362	5 330	5 199	4 780	4 845	4 876	5 271	3 652	4 885	5 202	3 259	2 062
Transportation occupations	5 463	5 213	9 512	1 338	5 301	5 396	5 199	3 194	4 795	4 890	4 917	3 578	4 824	5 148	3 259	2 062
Motor vehicle operators	5 539	5 297	9 512	1 338	5 293	5 396	5 199	3 194	4 802	4 862	5 112	3 578	4 926	5 285	3 259	2 062
Truck drivers	6 020	5 783	11 977	1 358	5 011	4 916	4 931	4 538	4 609	4 600	5 109	3 318	4 758	4 195	3 225	1 937
Driver-sales workers	4 865	4 621	5 505	—	4 335	4 535	—	—	6 555	6 048	—	—	3 491	3 718	—	1 234
Other motor vehicle operators	1 655	1 655	—	—	3 562	5 745	5 747	3 194	3 940	4 364	2 990	4 433	4 165	4 165	2 333	—
Rail and other transportation occupations	5 595	5 595	—	—	6 005	6 005	—	—	3 940	3 940	2 990	3 600	4 563	4 878	2 934	2 155
Material moving occupations	—	—	—	—	6 873	3 889	—	—	6 032	4 344	8 927	4 710	6 089	6 174	5 005	2 805
Supervisors, material moving equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Crane, hoist and winch operators	15 005	15 005	—	—	—	—	—	—	1 223	1 223	—	—	9 005	9 005	—	—
Excavating, grading, and dozer machine operators	4 842	4 842	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other material moving equipment operators	4 716	4 947	2 672	3 444	3 779	3 461	4 165	4 316	4 700	4 202	5 790	4 982	4 382	4 496	4 018	4 434
Handers, equipment cleaners, helpers, and laborers	3 118	3 341	3 182	956	4 824	3 080	6 941	9 005	5 547	2 471	7 505	7 505	11 322	11 322	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	2 505	2 505	—	—	4 174	2 563	4 263	6 037	4 255	4 618	3 570	7 418	6 222	6 402	—	—
Helpers, craft and production	10 572	11 169	—	9 005	5 305	5 199	6 550	7 415	3 230	3 098	6 005	3 509	5 309	5 309	6 402	7 505
Construction laborers	4 832	5 187	335	—	4 302	4 438	3 813	7 005	3 479	2 946	5 692	4 405	6 019	6 121	5 216	4 381
Freight, stock, and material handlers	4 938	5 079	2 005	4 358	4 291	3 808	4 970	6 455	5 242	5 075	5 734	4 514	3 431	3 615	2 770	4 743
Garage and service station occupations, and equipment cleaners	5 331	5 414	1 505	4 189	3 476	3 161	4 060	3 550	4 553	4 096	5 427	5 082	3 811	3 906	3 470	4 193
Hand packers and packagers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Professional and related services, total				Hospitals			Health services, except hospitals			Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Total	White	Black
	Total	White	Black		Total	White	Black		Total	White	Black			
Employed males 16 years and over	19 275	20 215	11 374	14 103	17 029	18 233	10 680	13 951	36 840	38 403	15 277	28 550	15 379	11 571
Managerial and professional specialty occupations	24 548	24 985	16 595	21 369	27 391	27 798	17 553	24 995	48 533	48 714	33 107	48 226	18 529	15 926
Executive, administrative, and managerial occupations	23 661	24 174	18 245	18 707	23 346	24 104	16 449	19 527	22 614	23 078	18 221	20 397	23 369	15 412
Officials and administrators, public administration	18 815	19 300	15 848	14 743	23 050	23 857	11 672	23 806	23 239	23 537	19 793	22 832	20 339	19 107
Financial managers	25 402	25 707	19 463	23 162	23 427	23 427	15 005	23 005	23 440	23 449	19 741	20 853	25 261	19 386
Managers, marketing, advertising, and public relations	25 757	23 907	20 993	18 166	23 793	23 793	15 005	23 005	23 440	23 449	19 741	20 853	25 261	19 386
Administrators, education and related fields	23 586	23 907	20 993	18 166	23 793	23 793	15 005	23 005	23 440	23 449	19 741	20 853	25 261	19 386
Managers, medicine and health	25 701	26 415	16 815	20 973	26 344	26 344	17 336	21 395	24 375	24 375	14 541	19 005	24 459	21 878
Other specified managers	20 929	21 474	16 815	17 877	20 475	21 308	17 820	21 755	18 884	18 884	14 541	19 005	24 459	21 878
Managers and administrators, n.e.c.	24 043	24 706	17 165	18 780	24 032	24 652	17 699	21 053	24 174	24 174	18 596	23 622	22 058	18 478
Salaries	23 755	24 400	17 195	18 713	23 926	24 512	17 699	21 053	23 856	24 429	18 350	23 575	21 486	15 119
Self-employed	33 032	33 896	15 476	32 642	36 466	37 677	—	189 354	28 896	29 978	21 271	24 628	—	—
Management related occupations	33 025	33 896	15 476	32 642	36 466	37 677	—	189 354	28 896	29 978	21 271	24 628	—	—
Accountants and auditors	24 004	24 619	15 310	18 617	17 259	17 736	13 393	15 263	16 489	16 783	13 804	15 305	17 651	15 435
Personnel, training, and labor relations specialists	18 063	18 910	14 396	13 286	16 837	17 999	12 870	13 004	14 924	15 259	13 633	7 952	17 996	17 783
Buyers and purchasing agents	16 073	16 278	14 315	12 925	15 046	15 108	15 077	12 251	14 217	14 232	13 746	15 305	17 763	17 886
Inspectors and computer officers	15 503	15 565	15 294	12 748	15 625	16 190	14 052	11 251	14 217	14 232	13 746	15 305	17 763	17 886
Other management related occupations	23 278	23 740	16 606	18 619	22 991	23 621	12 759	18 249	25 209	25 804	13 738	28 174	18 391	17 700
Professional specialty occupations	24 378	25 196	16 093	21 994	28 697	29 066	17 897	28 793	51 613	51 712	36 966	52 146	17 570	14 798
Engineers, architects, and surveyors	25 332	25 610	18 815	18 740	28 697	29 066	17 897	28 793	51 613	51 712	36 966	52 146	17 570	14 798
Engineers	26 142	26 455	20 241	21 200	23 982	23 587	42 825	28 005	28 121	28 121	16 019	15 485	17 777	14 346
Civil engineers	25 959	26 292	19 167	22 847	18 458	18 943	13 248	13 260	28 375	28 716	16 019	15 485	17 777	14 346
Electrical and electronic engineers	25 989	26 214	20 498	24 304	18 703	19 150	12 547	13 260	28 375	28 716	16 019	15 485	17 777	14 346
Mechanical engineers	24 607	24 958	19 751	22 463	18 553	19 162	11 112	19 245	23 422	24 151	15 444	27 080	17 313	17 568
Chemical engineers	22 041	22 479	15 054	17 732	17 271	17 492	15 047	17 265	20 385	21 120	17 358	20 005	18 595	17 618
Other engineers	24 051	24 405	15 815	19 164	17 077	17 472	13 139	19 983	17 448	17 448	15 099	12 407	18 471	15 015
Surveyors and mapping scientists	26 962	27 379	19 733	23 194	19 606	20 011	13 005	19 983	8 184	8 184	15 962	13 632	18 790	13 330
Computer systems analysts and scientists	20 296	20 528	18 062	18 797	20 778	20 952	18 785	26 749	31 085	31 943	20 855	23 255	17 225	13 455
Operations and systems researchers and analysts	21 899	22 512	15 030	14 618	17 866	18 046	15 337	13 080	28 862	30 191	22 543	23 345	17 017	12 432
Mathematical scientists	25 611	26 256	17 420	33 517	19 484	19 754	19 245	41 496	28 862	30 191	22 543	23 345	17 017	12 432
Natural scientists	24 046	24 530	17 330	17 099	19 769	20 476	16 560	17 999	38 963	39 788	25 711	33 428	15 041	14 753
Chemists, except biochemists	18 268	18 557	17 461	17 099	19 769	20 476	16 560	17 999	38 963	39 788	25 711	33 428	15 041	14 753
Other natural scientists	25 163	25 598	17 321	30 680	36 219	37 804	16 743	42 626	40 744	41 084	25 711	33 428	15 041	14 753
Health diagnosing occupations	52 050	52 349	42 293	52 210	41 721	42 772	32 397	42 626	56 238	56 238	48 805	59 143	37 700	38 380
Health assessment and treating occupations	16 035	16 410	12 913	13 551	15 660	15 984	12 972	13 454	18 400	19 157	13 232	15 550	15 280	15 504
Registered nurses	16 447	16 758	13 792	14 519	15 924	16 139	13 947	17 726	20 477	21 572	12 578	13 449	16 359	16 395
Other health assessment and treating occupations	15 800	16 210	12 403	12 403	15 489	15 883	12 372	12 572	17 870	18 264	13 601	16 195	15 120	15 372
Teachers, except postsecondary	15 958	16 167	13 975	13 514	18 489	19 034	12 619	12 413	10 710	10 907	9 261	7 906	16 649	14 558
Social scientists and urban planners	21 244	21 622	15 608	17 492	18 970	19 680	12 603	16 578	22 924	23 423	14 393	18 503	19 641	19 263
Social and recreation workers	13 580	14 107	11 984	11 200	15 690	15 923	14 437	13 820	13 024	13 329	11 413	11 099	15 551	16 343
Lawyers and judges	38 748	39 138	24 801	30 238	29 862	30 487	29 635	—	39 038	39 437	18 060	44 251	24 083	20 789
Writers, artists, entertainers, and athletes	14 593	14 645	10 828	12 027	16 546	16 764	14 614	13 821	18 923	19 587	8 769	15 422	12 030	11 838
Other professional specialty occupations	16 491	16 765	13 147	13 284	17 031	17 071	14 714	19 306	11 534	11 469	12 327	13 247	19 824	15 851
Technical, sales, and administrative support occupations	11 374	11 723	9 334	9 604	12 324	12 580	10 961	11 191	12 536	12 873	10 007	10 331	8 440	6 871
Technicians and related support occupations	12 806	12 949	11 530	11 865	13 490	13 628	12 047	12 957	13 991	14 215	11 529	12 023	9 649	8 764
Health technologists and technicians	13 447	13 617	11 972	12 817	13 416	13 544	12 142	12 996	14 158	14 395	11 530	12 023	10 979	7 772
Licensed practical nurses	10 592	10 565	10 881	11 188	10 760	10 676	11 252	10 816	9 710	9 879	9 107	9 681	9 466	8 102
Other health technologists and technicians	13 746	13 916	12 156	12 156	13 705	13 840	12 843	13 168	14 694	14 890	12 247	12 508	10 999	7 796
Engineering and science technicians	12 802	12 941	10 997	11 458	13 561	13 650	10 587	11 562	13 196	13 249	10 315	12 810	8 539	7 908
Electrical and electronic technicians	14 231	14 438	12 472	13 472	13 412	13 525	12 837	9 924	13 926	14 093	7 319	12 094	12 230	12 793
Industrial and mechanical engineering technicians	13 011	13 895	10 735	12 300	15 786	16 028	12 555	10 345	8 449	8 449	7 319	12 094	12 230	12 793
Drafting and surveying technicians	13 832	13 690	12 251	12 300	17 746	17 247	10 407	12 219	13 993	14 202	11 155	22 005	14 045	14 004
Other engineering and science technicians	10 576	10 852	8 860	8 542	13 949	14 703	9 758	13 291	13 227	13 461	11 621	11 437	7 449	7 476
Technicians, except health, engineering, and science	11 936	12 131	10 478	10 253	14 433	14 399	10 940	13 238	13 163	13 490	8 924	5 926	10 136	10 335
Airplane pilots and navigators	21 491	21 739	23 005	9 100	15 744	13 181	23 005	7 005	20 425	20 425	25 379	—	25 379	9 154
Air traffic controllers and broadcast equipment operators	7 956	8 318	4 629	4 629	12 413	13 220	8 758	3 005	13 423	13 423	6 477	—	6 477	7 448
Computer programmers	12 353	12 421	11 641	12 321	14 394	14 465	12 723	11 239	13 423	13 423	2 830	10 197	10 639	10 682
Other technicians, except health, engineering, and science	11 834	12 054	10 517	9 835	14 488	14 385	10 361	14 633	13 169	13 473	10 488	5 175	10 059	9 259

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	16 278	16 897	9 606	11 192	13 915	15 186	10 624	9 810	18 715	18 785	13 692	15 370	8 990	9 268	7 031	6 621
Supervisors and proprietors, sales occupations	18 684	19 259	12 242	15 230	15 338	15 671	11 416	15 457	19 685	19 738	13 008	20 910	14 846	15 317	11 196	12 126
Salaries	18 317	18 950	12 242	15 230	15 338	15 671	11 416	15 457	19 685	19 738	13 008	20 910	14 846	15 317	11 196	12 126
Self-employed	23 093	24 625	12 539	25 008	30 844	33 436	58 005	—	27 345	27 674	—	45 010	28 005	17 570	20 005	—
Sales representatives, finance and business services	23 867	24 294	12 539	18 209	30 844	33 436	58 005	—	27 345	27 674	—	45 010	28 005	17 570	20 005	—
Sales representatives, commodities, except retail	28 839	28 668	13 910	18 422	33 370	33 370	17 812	9 856	17 345	17 345	—	19 005	28 005	17 570	20 005	—
Sales workers, retail and personal services	15 423	13 374	6 089	5 421	7 972	7 303	9 892	7 812	18 488	18 571	13 959	12 714	3 680	3 778	4 922	2 717
Cashiers	15 423	13 374	6 089	5 421	7 972	7 303	9 892	7 812	18 488	18 571	13 959	12 714	3 680	3 778	4 922	2 717
Other sales occupations, retail and personal services	15 078	15 411	10 648	10 883	18 344	20 081	7 003	13 618	18 893	18 892	14 300	12 714	9 214	9 457	7 580	4 125
Sales related occupations	14 815	15 411	10 648	11 836	8 478	12 213	7 035	5 605	7 501	7 501	—	12 714	17 554	9 457	16 917	14 069
Administrative support occupations, including clerical	9 256	9 615	8 026	7 727	10 309	10 534	9 785	9 229	9 339	9 647	8 319	7 978	7 586	7 958	6 487	6 264
Supervisors, administrative support occupations	17 938	18 757	13 027	13 830	15 371	15 878	13 085	14 061	15 098	15 610	12 825	11 132	15 187	15 976	10 494	12 162
Computer equipment operators	10 024	10 134	10 192	9 278	11 531	11 781	11 403	11 371	10 925	10 668	8 752	9 402	8 929	9 216	8 782	7 383
Secretaries, stenographers, and typists	9 866	9 160	7 700	6 568	8 564	8 711	8 545	7 647	7 092	7 358	6 271	10 136	6 628	6 831	6 172	4 562
Secretaries	9 832	9 067	7 700	6 568	8 564	8 711	8 545	7 647	7 092	7 358	6 271	10 136	6 628	6 831	6 172	4 562
Stenographers and typists	6 276	6 323	5 930	5 695	8 174	8 195	7 919	6 320	7 919	8 179	6 889	10 852	7 640	7 713	7 940	5 075
Receptionists	5 690	5 678	6 136	6 620	8 748	8 671	8 980	8 494	7 494	7 796	5 062	7 396	4 882	5 164	4 240	4 051
Other information clerks	7 192	7 487	6 144	6 055	8 257	8 697	7 700	7 513	7 612	7 796	5 204	7 486	3 361	3 514	2 999	2 284
File clerks	5 109	4 863	5 764	4 365	7 231	6 811	7 231	6 231	2 829	2 725	4 303	7 643	2 999	3 152	3 425	8 377
Other records processing occupations, except financial	5 248	5 309	5 213	5 168	9 931	10 440	8 152	9 574	17 486	20 546	10 903	2 425	4 494	4 573	4 083	4 335
Bookkeepers, accounting, and auditing clerks	11 340	11 624	9 373	9 373	11 084	11 761	7 078	9 524	9 644	9 775	10 056	7 876	10 845	10 934	11 336	8 771
Payroll and timekeeping clerks	10 408	10 850	9 273	7 830	12 702	13 259	12 019	10 092	9 695	9 695	—	—	10 413	10 051	9 204	7 036
Other financial records processing occupations	12 754	13 417	10 450	10 889	11 130	12 530	8 940	9 159	12 843	12 843	11 057	9 505	14 633	15 107	15 536	11 666
Telephone operators	4 855	4 863	5 313	5 160	8 101	7 565	11 714	8 207	4 945	5 523	3 619	2 988	3 807	3 922	3 890	2 493
Mail and message distributing occupations	5 935	5 799	6 297	6 297	7 465	7 347	7 628	7 524	5 882	5 798	5 753	6 923	5 812	5 813	5 930	5 753
Production coordinators and expeditors	13 392	13 631	10 575	8 672	12 968	13 553	11 145	9 068	8 181	15 696	4 705	9 238	11 609	11 673	10 321	10 416
Traffic, shipping, and receiving clerks	8 612	8 638	8 864	8 414	8 998	8 993	9 537	9 723	8 081	7 870	9 329	10 332	8 529	8 588	8 757	7 864
Stock and inventory clerks	9 014	8 754	10 171	8 332	9 663	9 104	11 492	9 062	8 552	8 951	8 842	13 656	8 404	8 539	8 210	6 570
Other material recording, scheduling, and distributing clerks	10 190	10 288	10 238	9 899	9 888	9 419	11 613	6 064	10 469	11 245	8 628	13 656	8 181	8 424	8 365	5 796
Adjusters and investigators	12 934	13 341	11 244	10 917	12 233	12 216	12 819	9 642	10 593	11 392	8 406	14 466	10 432	10 116	11 428	16 599
Date-entry keyers	8 626	8 773	8 074	7 120	9 771	10 397	7 622	10 026	6 661	6 315	7 015	9 616	5 692	5 780	4 804	3 301
Other administrative support occupations	8 367	8 791	7 092	7 089	9 870	10 274	8 696	9 054	8 890	9 053	8 704	7 743	7 972	8 567	6 333	6 224
Service occupations	8 069	8 249	7 590	7 751	8 950	9 143	8 573	8 453	7 544	7 843	6 485	7 650	8 535	8 901	7 405	7 649
Private household occupations	8 898	8 757	9 631	8 517	10 654	10 602	10 819	9 724	9 277	8 568	7 781	8 404	8 293	8 049	9 408	8 003
Protective service occupations	14 331	14 335	17 096	12 771	18 486	18 486	15 625	13 292	13 097	13 515	11 845	13 091	14 377	14 711	9 121	7 987
Guards	7 998	8 203	7 439	7 004	8 864	8 996	8 424	8 325	7 524	7 824	6 453	7 637	8 553	8 940	15 158	17 158
Other protective service occupations	5 086	5 532	6 657	5 704	7 854	7 585	8 404	7 941	5 303	5 056	5 754	6 657	4 321	4 152	4 653	5 279
Food preparation and service occupation	5 086	5 532	6 657	5 704	7 854	7 585	8 404	7 941	5 303	5 056	5 754	6 657	4 321	4 152	4 653	5 279
Health service occupations	8 988	9 242	8 416	7 743	9 123	9 226	8 640	8 838	9 115	9 883	8 667	8 546	8 284	8 370	7 755	6 554
Cleaning and building service occupations, except household	8 257	8 572	7 295	7 792	8 731	9 170	7 941	8 192	6 718	6 876	6 102	7 117	9 096	9 545	7 563	8 031
Personal service occupations	6 217	6 300	6 097	5 705	9 254	9 771	8 484	8 521	7 660	7 669	7 325	9 257	5 114	5 016	5 429	4 570
Farming, forestry, and fishing occupations	8 105	8 297	7 336	7 821	8 827	9 023	8 502	7 801	6 558	7 140	3 938	5 780	8 795	9 048	7 410	8 468
Precision production, craft, and repair occupations	13 789	14 082	11 422	11 757	14 532	14 682	13 270	13 403	14 679	14 994	10 579	12 652	12 834	13 116	10 945	10 797
Mechanics and repairers	16 174	16 361	12 994	10 937	16 690	18 845	12 600	12 696	18 824	19 970	7 620	18 165	11 634	12 123	10 945	10 797
Supervisors, mechanics and repairers	10 934	11 374	8 589	9 183	13 743	13 865	13 718	13 322	14 663	14 066	10 344	18 177	15 697	15 815	14 716	13 979
Automobile mechanics, including body	12 087	12 201	10 634	11 634	13 039	13 023	13 508	11 415	11 002	10 732	16 54	12 411	10 963	11 532	7 126	13 899
Industrial machinery repairers	11 266	11 464	9 128	8 073	13 556	14 169	9 333	12 048	7 298	8 300	—	—	10 921	12 129	8 452	13 633
Electronic repairers, communications and industrial equipment	13 569	13 618	12 770	12 770	13 096	14 013	14 013	13 919	9 892	9 892	—	—	10 921	11 148	9 897	7 441
Heating, air conditioning, and refrigeration mechanics	12 194	12 378	10 464	12 323	13 096	13 746	11 655	12 803	9 801	10 040	9 249	11 232	11 527	11 742	9 678	10 470
Other mechanics and repairers	13 368	13 745	10 589	11 158	14 358	14 568	12 525	13 181	10 608	11 032	6 521	8 243	13 043	13 379	10 795	10 916
Construction trades	18 058	18 336	14 054	14 654	18 297	18 434	15 807	17 772	13 993	14 155	9 833	10 802	17 223	17 380	15 380	11 111
Supervisors, construction occupations	11 381	11 881	9 076	9 745	13 428	13 468	12 137	13 468	10 047	10 264	8 317	3 077	12 085	12 282	10 187	10 809
Carpenters	14 779	15 009	12 487	12 353	14 770	14 873	13 063	12 747	12 367	13 002	6 530	14 444	14 003	14 290	11 340	12 029
Electricians	10 733	11 045	9 560	9 846	12 022	12 328	10 798	10 174	7 826	8 233	4 709	8 451	11 277	11 679	9 902	11 409
Painters, construction and maintenance	15 322	15 689	12 543	12 864	16 109	16 266	15 536	15 735	12 144	12 837	6 855	10 347	13 689	14 049	11 051	11 484
Plumbers, pipefitters, and steamfitters	12 365	12 935	9 513	12 056	13 530	14 135	10 740	15 366	10 199	10 407	3 898	16 125	13 253	13 724	11 201	12 015
Other construction trades																

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Extraction occupations

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Food and kind makers

Machinists

Sheet metal workers

Other precision metal workers

Precision textile, apparel, and furnishings machine workers

Precision food production occupations

Precision inspectors, testers, and related workers

Plant and system operators

Other precision production occupations

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing and woodworking machine operators

Printing machine operators

Textile machine operators

Textile sewing machine operators

Laundry and dry cleaning machine operators

Packaging and filling machine operators

Furniture, furniture, and other operators, except food

Other specified machine operators

Miscellaneous and not specified machine operators

Fabricators, assemblers, and hand working occupations

Welders and cutters

Solders and brazers

Assemblers

Hand working occupations

Production inspectors, testers, samplers, and weighers

Graders and sorters, except agricultural

Other production inspectors, testers, samplers, and weighers

Transportation and material moving occupations

Transportation occupations

Motor vehicle operators

Truck drivers

Other motor vehicle operators

Rail and water transportation occupations

Material moving equipment operators

Supervisors, material moving equipment operators

Construction occupations

Construction laborers

Freight, stock, and material handlers

Garage and service station occupations, and equipment

Hand packers and packagers

Laborers, except construction

Persons of Spanish origin may be of any race.

	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
17 441	17 743	13 291	13 284	13 159	24 645	24 645	14 509	14 509	9 088	9 088	11 752	13 032	9 084	7 446	23 005	12 020
15 595	15 678	14 511	14 511	14 129	15 740	15 740	15 443	15 443	15 658	15 658	15 217	17 823	14 648	14 878	23 005	12 020
12 056	12 378	14 151	14 151	13 301	16 010	16 010	14 843	14 843	15 658	15 658	15 217	17 823	14 648	14 878	23 005	12 020
14 888	14 888	10 505	10 505	10 505	13 252	13 252	13 252	13 252	11 834	11 834	10 151	14 439	14 579	14 935	11 795	11 213
10 016	10 339	13 788	13 788	11 792	13 268	13 268	12 784	12 784	14 605	14 605	12 365	17 432	13 311	13 851	10 305	8 142
17 592	17 700	16 702	16 702	16 747	15 500	15 500	14 840	14 840	10 494	10 494	10 199	12 365	13 311	13 851	10 305	8 142
13 829	13 903	14 838	14 838	11 880	12 349	12 349	11 788	11 788	17 681	17 681	16 413	20 245	18 165	18 594	15 977	14 746
8 775	9 292	7 043	7 043	7 450	12 840	12 840	12 724	12 724	17 191	17 191	16 665	12 709	14 206	13 914	20 286	14 655
10 403	10 576	10 727	10 727	10 179	12 410	12 410	11 406	11 406	12 967	12 967	10 865	8 630	7 068	7 052	14 130	6 526
14 472	14 885	14 615	14 615	15 943	16 591	16 591	16 214	16 214	17 405	17 405	16 865	20 566	16 178	11 504	7 840	6 010
15 315	15 647	11 176	11 176	12 510	15 401	15 401	15 108	15 108	15 716	15 716	11 175	12 691	11 762	12 166	14 992	17 501
8 345	8 449	8 141	8 141	7 861	10 172	10 172	9 719	9 719	7 865	7 865	8 347	6 905	8 098	8 249	7 647	7 558
9 470	9 619	9 252	9 252	9 232	10 640	10 640	9 811	9 811	8 359	8 359	7 610	7 179	9 533	9 712	9 540	8 848
9 781	9 942	9 602	9 602	9 232	10 978	10 978	9 801	9 801	8 164	8 164	7 603	7 648	9 914	10 062	10 020	9 283
10 813	11 518	8 855	8 855	8 236	8 464	8 464	8 155	8 155	9 433	9 433	10 131	7 960	7 672	13 979	1 298	13 911
10 728	10 013	18 005	18 005	15 585	18 207	18 207	18 207	18 207	18 005	18 005	18 005	18 005	13 979	13 979	1 298	13 911
8 266	8 005	11 584	11 584	9 102	9 180	9 180	6 292	6 292	9 886	9 886	15 851	34 005	9 588	9 863	10 556	18 005
9 759	9 812	10 296	10 296	9 233	10 783	10 783	11 760	11 760	9 480	9 480	8 148	1 755	2 493	2 493	9 985	9 264
8 965	9 204	7 067	7 067	3 439	9 315	9 315	9 006	9 006	18 648	18 648	18 648	18 648	6 643	8 643	—	—
8 084	7 927	8 473	8 473	9 071	8 827	8 827	8 814	8 814	6 069	6 069	5 693	5 968	6 151	6 292	5 619	3 535
5 302	5 302	10 027	10 027	12 679	13 895	13 895	10 402	10 402	11 330	11 330	12 018	10 205	13 577	13 485	13 220	15 505
13 329	13 336	8 515	8 515	8 529	9 409	9 409	9 332	9 332	9 016	9 016	9 366	7 627	6 523	6 621	5 919	11 477
7 837	7 782	8 704	8 704	9 035	10 103	10 103	8 656	8 656	9 077	9 077	7 750	10 281	9 925	10 405	8 233	5 567
9 497	8 207	7 302	7 302	6 949	11 505	11 505	9 774	9 774	8 068	8 068	8 405	4 269	8 355	8 710	7 517	7 809
12 575	13 334	9 481	9 481	9 503	13 726	13 726	13 894	13 894	12 393	12 393	9 057	—	9 479	9 951	8 567	8 350
5 852	6 609	2 518	2 518	9 005	8 568	8 568	8 506	8 506	11 965	11 965	6 519	4 269	5 076	4 933	7 055	9 905
4 519	4 378	6 002	6 002	3 677	9 284	9 284	9 122	9 122	11 240	11 240	10 883	4 269	5 076	4 933	5 543	—
6 839	7 008	6 002	6 002	8 117	12 567	12 567	12 844	12 844	12 894	12 894	1 300	—	6 659	6 900	11 805	1 964
9 926	10 168	7 948	7 948	4 745	7 303	7 303	7 316	7 316	6 674	6 674	2 345	—	2 849	2 756	5 811	9 701
2 846	2 739	3 393	3 393	11 254	15 028	15 028	10 211	10 211	15 094	15 094	255	—	12 704	12 587	14 045	7 081
14 808	15 093	11 796	11 796	7 968	9 992	9 992	10 031	10 031	8 354	8 354	8 835	7 160	8 000	8 131	7 422	12 659
8 316	8 427	7 983	7 983	7 816	9 714	9 714	9 681	9 681	8 189	8 189	8 593	6 973	7 904	8 028	7 422	7 664
8 053	8 154	7 815	7 815	7 837	9 704	9 704	9 670	9 670	8 143	8 143	8 593	6 973	7 904	8 028	7 422	7 664
8 004	8 074	7 794	7 794	8 443	9 991	9 991	9 991	9 991	8 337	8 337	8 618	7 027	7 995	8 021	7 353	7 596
8 329	8 516	6 736	6 736	7 447	7 146	7 146	8 533	8 533	7 403	7 403	8 706	12 338	9 345	9 478	8 974	8 891
8 721	8 817	7 332	7 332	7 559	9 804	9 804	9 665	9 665	7 825	7 825	8 706	6 374	7 623	7 762	6 967	12 316
16 374	16 855	15 997	15 997	1 352	11 313	11 313	12 925	12 925	16 996	16 996	14 702	11 690	12 904	12 904	6 967	7 220
13 180	13 774	11 381	11 381	10 278	12 118	12 118	10 892	10 892	13 875	13 875	14 702	11 690	12 904	12 904	6 967	7 220
14 424	14 343	15 210	15 210	11 955	12 303	12 303	12 158	12 158	21 282	21 282	14 702	11 690	12 904	12 904	6 967	7 220
17 329	17 465	9 426	9 426	9 930	12 189	12 189	15 055	15 055	13 375	13 375	15 934	13 375	16 893	16 893	14 005	9 533
11 161	10 873	13 581	13 581	8 030	13 814	13 814	12 340	12 340	15 934	15 934	15 934	13 375	16 893	16 893	14 005	9 533
12 899	13 678	10 655	10 655	10 496	12 011	12 011	12 515	12 515	12 772	12 772	12 482	10 005	11 969	12 319	11 612	9 533
6 783	6 752	7 126	7 126	6 506	9 064	9 064	8 832	8 832	6 074	6 074	8 065	5 955	6 590	6 669	6 650	5 976
16 899	17 380	13 708	13 708	23 527	19 103	19 103	21 747	21 747	13 971	13 971	24 005	10 795	15 707	14 976	17 898	6 542
9 660	9 968	7 078	7 078	6 191	8 014	8 014	8 062	8 062	5 816	5 816	6 063	10 795	15 707	14 976	17 898	6 542
9 807	10 710	6 961	6 961	6 654	10 583	10 583	11 323	11 323	7 169	7 169	9 696	12 545	5 713	8 075	5 379	3 404
6 900	6 687	8 388	8 388	6 409	7 468	7 468	7 723	7 723	7 476	7 476	9 696	12 545	5 713	8 075	5 379	3 404
5 593	5 400	6 616	6 616	5 388	8 372	8 372	8 354	8 354	7 205	7 205	11 963	9 005	5 007	5 420	4 184	7 145
3 154	2 701	5 759	5 759	5 117	6 089	6 089	3 922	3 922	3 451	3 451	7 202	16 077	3 904	3 652	973	9 505
6 480	6 411	6 794	6 794	6 733	9 423	9 423	9 530	9 530	5 639	5 639	7 347	3 717	6 806	6 967	6 467	6 443

Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
on.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
men and over	8 364	8 345	8 310	7 183	9 422	9 429	8 850	8 433	7 090	7 080	6 590	6 796	9 170	9 220	9 190	6 903
all occupations	11 038	10 890	11 703	10 315	12 350	12 117	12 436	12 747	10 914	10 615	10 944	12 412	11 837	11 780	12 405	10 224
nonfarm occupations	11 731	11 645	12 549	11 226	13 429	13 552	12 383	12 552	11 057	11 031	11 258	10 780	13 141	12 966	14 406	12 189
farm occupations	11 458	11 458	11 458	11 458	11 732	11 732	11 732	11 732	11 057	11 031	11 258	10 780	13 141	12 966	14 406	12 189
public administration	13 407	13 254	15 087	15 580	13 223	12 980	15 735	14 050	11 693	11 644	14 168	14 490	14 171	14 234	14 809	14 432
management occupations	11 575	11 563	11 615	10 393	12 203	12 189	20 505	8 201	12 787	12 908	9 405	9 793	11 141	11 182	10 134	5 588
related fields	13 502	13 238	15 436	12 990	14 444	15 513	8 048	10 859	11 369	11 350	11 103	14 024	16 497	16 360	17 728	14 516
in education	14 263	14 405	12 895	13 667	14 938	15 193	12 996	13 421	13 268	13 280	12 674	14 093	16 497	16 360	17 728	14 516
in health	13 307	13 234	14 462	11 437	14 336	14 393	13 923	13 541	11 307	11 368	11 796	8 891	13 852	13 643	15 878	11 358
in government	10 744	10 726	10 842	10 385	13 210	13 358	11 868	12 256	10 438	10 424	10 560	10 036	9 030	9 007	9 087	8 923
in other	10 883	10 875	10 888	10 888	13 232	13 375	11 938	12 435	10 717	10 709	10 628	10 093	9 030	9 007	9 087	8 923
in science	7 322	7 100	6 415	6 454	9 299	10 468	2 420	2 293	5 525	5 123	9 797	8 913	9 030	9 007	9 087	8 923
in social sciences	10 891	10 846	11 217	10 785	11 564	11 511	11 861	11 714	10 065	9 964	10 904	9 876	11 323	11 304	11 703	10 447
in arts and humanities	10 895	10 865	10 915	10 701	11 103	10 994	11 531	11 872	9 791	9 787	9 781	8 789	11 016	11 004	10 920	10 057
relations specialists	11 477	11 489	11 503	10 925	12 259	12 259	12 355	10 524	9 983	10 023	9 810	9 186	12 204	12 154	12 837	11 276
in business	10 783	10 777	11 023	10 959	11 082	11 044	11 494	12 029	8 696	8 527	16 390	11 790	11 332	11 369	11 207	9 563
in law	9 591	9 418	10 400	10 695	11 508	11 695	11 177	—	10 260	10 014	11 582	7 613	9 152	9 012	9 848	16 778
in other	10 307	10 187	11 466	10 741	12 007	12 084	11 501	12 622	11 701	11 188	15 047	14 130	11 031	11 108	11 239	7 208
in agriculture	10 942	10 785	11 589	10 171	12 255	11 990	12 442	12 770	10 872	10 491	10 859	13 036	11 752	11 703	12 253	10 067
in forestry	13 678	13 714	12 472	13 680	13 372	13 511	10 655	15 175	9 493	9 840	7 205	13 725	13 659	13 637	14 089	11 055
in fishing	12 444	12 393	12 851	11 032	20 387	24 603	3 005	15 175	9 861	11 455	7 205	13 725	13 659	13 637	14 089	11 055
in mining	15 023	15 023	15 023	15 023	17 233	17 233	17 233	15 175	9 861	11 455	7 205	13 725	13 659	13 637	14 089	11 055
in construction	14 831	15 108	8 358	15 278	7 233	5 505	5 505	—	3 894	3 894	—	—	18 870	11 870	18 605	—
electrical and electronic engineers	13 438	13 623	10 357	14 165	2 722	6 745	1 105	12 622	12 065	12 065	—	—	18 870	11 870	18 605	—
mechanical engineers	12 197	12 419	8 762	13 221	15 203	15 556	15 052	12 622	12 065	12 065	—	—	18 870	11 870	18 605	—
industrial engineers	16 702	17 982	10 008	18 005	12 404	12 404	11 728	19 005	8 920	9 029	—	13 725	21 488	22 664	14 005	9 480
other engineers	15 487	15 637	13 617	17 931	12 307	11 966	11 728	19 005	8 920	9 029	—	13 725	21 488	22 664	14 005	9 480
surveyors and mapping scientists	9 109	9 089	10 593	6 530	15 168	15 168	15 168	19 005	8 920	9 029	—	13 725	21 488	22 664	14 005	9 480
computer systems analysts and scientists	13 816	14 043	11 914	7 865	15 232	15 425	13 097	14 880	9 296	11 849	5 420	—	13 015	13 120	12 110	1 053
operations and systems researchers and analysts	13 109	13 795	10 418	7 403	13 880	14 845	11 157	11 255	9 296	9 296	24 005	—	10 954	12 074	7 508	6 479
mathematical scientists	11 905	11 905	11 905	11 905	10 842	10 439	13 889	14 489	10 970	10 029	11 937	705	10 987	10 956	12 922	7 978
natural scientists	12 688	12 360	12 340	13 157	14 921	14 637	13 231	14 489	10 970	10 029	11 937	705	10 987	10 956	12 922	7 978
chemists, except biochemists	12 623	12 310	12 340	13 157	14 921	14 637	13 231	14 489	10 970	10 029	11 937	705	10 987	10 956	12 922	7 978
other natural scientists	12 700	12 385	12 310	13 082	14 921	14 119	12 956	13 909	13 462	12 688	10 319	20 234	10 054	10 160	10 045	6 554
health diagnosing occupations	24 233	22 707	20 920	27 546	22 933	21 588	19 203	25 492	25 956	24 008	23 554	30 627	10 512	10 700	12 018	10 330
health assessment and treating occupations	11 316	11 138	11 928	11 540	11 889	11 705	12 320	12 143	9 299	9 203	10 117	9 804	11 288	11 890	13 859	10 385
registered nurses	11 519	11 294	12 653	12 179	12 064	11 639	12 939	12 607	9 376	9 244	10 791	10 428	11 577	11 258	11 709	9 877
other health assessment and treating occupations	10 212	10 264	9 340	9 234	10 684	10 690	9 641	10 003	8 997	8 997	8 148	9 917	10 973	11 093	14 240	11 646
teachers, except postsecondary	10 581	10 477	11 475	9 238	11 840	11 884	11 147	9 295	7 010	6 731	8 280	6 700	11 799	11 753	12 195	10 214
social scientists and room planners	13 013	13 013	13 013	13 013	12 429	12 429	12 429	13 013	13 209	13 337	11 757	15 183	15 183	15 101	16 005	15 528
social and health workers	15 207	15 207	15 207	15 207	13 753	13 753	13 753	15 207	8 661	8 535	10 027	8 115	11 524	11 844	11 049	8 499
lawyers and judges	15 087	15 218	13 883	17 016	11 629	11 553	17 215	11 959	13 806	14 303	8 920	11 278	13 225	13 278	16 241	8 950
writers, artists, entertainers, and athletes	6 997	6 949	8 370	7 721	11 333	11 282	10 218	7 019	8 770	8 580	6 580	9 080	8 003	7 973	9 160	6 556
other professional specialty occupations	10 386	10 294	11 807	8 843	10 438	10 602	8 409	10 085	8 019	8 082	7 405	6 084	11 592	11 516	12 980	9 517
technical, sales, and administrative support occupations	7 311	7 255	7 714	6 728	8 584	8 450	9 034	8 258	7 166	7 124	7 680	6 904	6 150	6 206	5 962	5 223
technicians and related support occupations	8 921	8 763	9 492	8 823	9 929	9 714	9 826	8 929	7 369	7 179	8 401	8 466	7 243	7 221	7 641	5 223
health technicians and technicians	9 031	8 852	9 568	8 012	9 360	9 158	9 643	8 255	8 251	8 190	8 421	8 511	8 943	8 959	9 716	6 414
licensed practical nurses	8 125	7 811	9 394	8 022	8 991	8 163	8 894	8 354	7 236	7 033	8 316	7 959	7 880	7 712	8 756	6 273
other health technicians and technicians	9 949	9 838	10 872	9 838	10 287	10 158	10 090	10 267	9 219	9 210	8 681	9 006	9 310	9 343	8 683	6 273
engineering and science technicians	7 014	6 940	7 961	6 603	9 440	9 589	8 778	9 458	7 998	8 006	7 571	7 691	5 559	5 618	5 369	4 386
electrical and electronic technicians	8 724	8 658	9 162	7 016	9 550	10 111	8 009	8 078	7 946	7 906	8 001	9 005	6 956	5 888	5 743	7 665
industrial and mechanical engineering technicians	9 453	9 346	8 149	8 331	9 734	10 030	8 005	8 531	8 134	8 134	7 506	10 593	6 711	10 593	7 665	7 665
drafting and surveying technicians	8 440	8 130	7 726	8 286	9 209	9 621	6 698	19 475	7 619	7 530	10 605	5 900	6 711	7 032	3 183	7 095
other engineering and science technicians	6 330	6 240	7 581	5 463	9 419	9 439	9 148	8 650	8 027	8 057	7 087	8 045	5 418	5 501	4 186	4 186
technicians, except health, engineering, and science	9 026	9 041	9 062	8 689	9 909	9 934	9 072	8 928	8 816	8 962	7 830	5 914	7 752	7 682	8 474	7 968
airplane pilots and navigators	12 830	12 024	—	—	14 599	12 467	—	—	—	—	—	—	4 115	4 115	—	—
air traffic controllers and broadcast equipment operators	6 141	6 065	—	6 909	7 764	7 676	8 204	—	13 082	13 082	—	—	5 235	5 195	7 454	6 485

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	5 316	5 281	5 543	4 888	7 033	7 033	7 139	6 915	8 428	8 599	7 192	5 526	3 652	3 596	4 263	3 058
Supervisors and proprietors, sales occupations	9 715	9 475	9 927	7 839	10 403	10 832	9 344	7 114	11 299	11 299	—	4 314	9 340	9 028	11 253	7 739
Self-employed	10 032	9 810	9 597	8 329	10 403	10 832	9 344	7 114	11 299	11 299	—	4 314	9 340	9 028	11 253	7 739
Sales representatives, finance and business services	5 209	5 301	7 911	9 462	8 535	8 535	—	—	13 181	12 952	—	—	5 714	4 928	12 692	3 090
Sales representatives, commodities, except retail	9 857	10 135	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	9 235	9 235	5 358	4 687	6 943	6 937	7 049	6 910	7 935	8 089	7 192	5 643	3 410	3 357	3 994	2 864
Cashiers	4 970	4 970	5 171	4 972	7 024	7 023	7 110	6 724	7 353	7 353	6 570	5 932	3 300	3 250	3 860	2 723
Other sales occupations, retail and personal services	4 602	4 500	6 139	4 731	6 468	6 477	6 702	8 541	8 471	8 748	—	4 283	4 363	4 304	5 040	4 528
Sales related occupations	5 874	5 877	7 558	5 266	5 485	4 580	8 575	—	5 208	5 208	—	—	9 796	9 854	8 005	5 925
Administrative support occupations, including clerical	6 921	6 910	7 134	6 383	8 002	7 931	8 375	7 756	6 432	6 615	7 049	6 444	6 172	6 239	5 949	5 235
Supervisors, administrative support occupations	11 101	11 113	11 090	10 805	11 388	11 400	11 179	11 527	10 219	10 243	10 224	10 481	10 961	11 014	10 952	9 742
Computer equipment operators	7 970	7 908	8 601	7 583	8 401	8 345	8 481	8 598	7 615	7 690	6 875	8 467	7 453	7 548	7 508	5 537
Secretaries, stenographers, and typists	7 384	7 372	7 528	7 112	8 351	8 311	8 514	8 244	7 003	6 990	7 297	6 805	7 104	7 160	6 376	6 376
Stenographers and typists	7 561	7 535	7 846	7 373	8 445	8 425	8 906	7 115	5 988	5 805	6 458	6 897	7 407	7 429	7 146	6 783
Receptionists	6 150	6 090	6 564	6 065	7 933	7 812	8 724	7 014	5 988	5 709	6 104	6 226	7 145	7 507	5 515	5 245
Other information clerks	5 783	5 758	6 204	5 723	7 934	7 824	8 941	6 383	3 187	3 195	3 395	5 498	4 132	4 221	3 599	4 443
File clerks	5 603	5 499	6 251	5 013	7 566	7 542	8 941	5 383	3 481	3 361	3 638	5 973	3 736	3 899	3 002	3 338
Other records processing occupations, except financial	4 298	4 164	4 790	4 306	5 766	5 742	7 212	5 353	3 481	3 361	3 638	3 432	2 910	2 965	2 856	3 258
Bookkeepers, accounting, and auditing clerks	5 502	5 476	5 852	5 339	7 780	7 786	7 742	7 307	6 283	6 203	6 638	6 472	4 789	4 794	4 920	4 389
Payroll and timekeeping clerks	7 746	7 710	8 155	7 899	8 667	8 620	8 869	9 455	7 423	7 423	7 738	7 504	8 465	8 493	7 976	7 971
Other financial records processing occupations	8 693	8 663	9 224	7 973	9 361	9 302	9 235	8 735	7 205	7 087	8 785	8 862	8 923	8 973	8 862	8 439
Telephone operators	8 074	7 962	9 054	7 746	8 402	8 306	9 312	7 392	6 741	6 593	8 146	7 736	9 921	9 677	11 729	11 075
Mail and messenger occupations	6 299	6 205	6 749	5 612	6 991	6 903	8 042	6 646	5 925	5 911	5 935	6 802	5 401	5 543	5 165	4 063
Production, coordination, and expediting	5 062	5 008	5 430	4 751	6 154	6 122	6 150	5 877	5 842	5 483	6 118	2 906	5 252	5 686	3 919	4 752
Production, coordination, and expediting	8 350	8 211	9 081	7 185	8 499	8 379	8 720	6 327	6 164	6 224	6 818	6 817	8 182	7 976	10 308	7 118
Traffic, shipping, and receiving clerks	6 343	6 810	6 225	5 992	7 293	7 446	7 128	6 813	6 299	6 437	6 234	4 552	6 708	6 919	5 004	7 655
Stock and inventory clerks	7 213	7 076	7 776	6 835	7 494	7 301	8 179	7 211	8 369	8 660	7 255	7 275	5 979	6 064	5 512	6 047
Other material recording, scheduling, and distributing clerks	5 909	5 608	7 512	5 859	6 851	6 523	8 347	6 499	5 121	5 251	4 597	6 267	4 855	4 393	5 451	5 059
Adjusters and inspectors	9 087	8 963	9 817	8 804	8 678	8 572	9 442	7 702	7 987	8 061	8 899	6 384	7 340	7 247	8 021	5 954
Date-entry typists	7 950	7 752	8 716	8 274	8 140	7 940	8 622	7 825	8 368	8 148	8 899	13 236	7 118	6 963	8 066	8 255
Other administrative support occupations	5 705	5 577	6 452	5 147	7 569	7 370	8 248	7 454	6 134	6 027	7 329	5 478	4 836	4 728	5 441	4 448
Service occupations	5 190	4 917	6 068	5 032	6 825	6 529	7 432	6 482	5 213	5 147	5 509	5 206	4 049	3 829	4 874	3 852
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	4 339	3 820	6 389	4 568	8 145	8 159	8 155	6 398	6 408	6 321	7 497	5 403	3 883	3 291	5 732	4 155
Guards	4 247	3 693	6 400	4 518	8 061	8 058	8 077	6 453	6 067	5 829	7 497	5 403	3 799	3 161	5 790	4 011
Other protective service occupations	8 671	9 175	5 604	5 849	10 196	10 017	14 505	5 305	12 153	12 153	—	—	8 802	10 648	2 597	16 005
Service occupations, except protective and household	5 196	4 925	6 066	5 034	6 822	6 525	7 430	6 482	5 213	5 147	5 508	5 206	4 051	3 837	4 860	3 849
Food preparation and service occupations	4 180	3 970	5 087	4 019	6 450	6 156	7 174	6 166	4 603	4 523	5 029	4 148	3 626	3 512	4 203	3 316
Health service occupations	4 078	4 078	6 834	5 989	6 944	6 622	7 614	6 620	5 354	5 284	5 667	5 411	6 002	6 051	6 131	4 836
Cleaning and building service occupations, except household	5 418	5 139	5 957	5 422	6 576	6 386	6 899	6 310	4 487	4 414	4 791	3 958	5 717	5 736	5 722	5 209
Personal service occupations	3 838	3 596	4 761	3 839	6 356	6 097	7 025	5 705	5 120	5 043	5 371	6 970	3 707	3 452	4 722	3 729
Farming, forestry, and fishing occupations	4 322	4 288	4 967	3 559	5 552	4 754	10 543	13 268	4 854	4 681	8 345	1 733	3 965	3 988	4 234	3 944
Precision production, craft, and repair occupations	7 373	7 245	7 963	6 624	9 331	9 481	8 925	7 713	7 756	7 707	7 925	6 987	6 295	6 109	7 469	5 501
Mechanics and repairers	7 011	6 829	7 538	6 909	8 451	8 477	8 101	9 037	8 020	8 100	8 416	7 575	6 292	6 062	7 257	5 377
Supervisors, mechanics and repairers	7 456	7 272	9 985	10 005	10 338	10 031	13 505	23 005	8 138	8 733	6 485	—	4 929	4 889	5 855	10 005
Automotive mechanics, including body	8 325	8 416	2 845	7 868	17 688	17 688	—	—	6 047	5 727	7 005	—	7 496	6 566	5 622	4 685
Industrial machinery repairers	6 788	7 143	2 833	9 282	8 477	8 887	6 005	—	3 257	2 473	—	4 695	6 301	5 636	—	10 530
Electronic repairers, communications and industrial equipment	5 893	5 633	7 039	5 694	4 121	3 400	5 524	2 834	10 281	11 428	8 005	—	5 796	5 653	6 902	5 193
Heating, air conditioning, and refrigeration mechanics	9 307	9 003	9 735	8 069	9 710	10 412	9 008	9 387	7 949	7 713	2 205	—	8 950	8 950	—	—
Other mechanics and repairers	7 322	7 131	8 069	6 235	8 503	8 449	8 404	—	—	—	—	—	6 842	6 663	8 595	4 007
Construction trades	5 668	5 483	6 404	6 643	8 634	8 343	8 905	9 325	5 944	6 104	4 923	8 085	5 790	5 919	5 618	6 533
Supervisors, construction occupations	8 725	8 022	10 019	7 934	9 880	10 535	9 371	7 085	5 653	5 653	6 005	7 005	8 769	8 729	9 623	13 425
Carpenters	4 841	5 478	4 475	5 763	9 519	9 506	9 554	13 191	7 188	7 336	6 005	4 005	5 879	6 313	4 272	8 999
Electricians	8 193	7 873	10 959	8 887	9 100	8 730	9 751	13 191	3 772	3 983	3 049	—	7 483	7 738	6 621	97
Painters, construction and maintenance	4 105	3 749	6 364	3 016	7 497	6 364	9 751	9 405	3 772	3 983	3 049	—	4 317	4 179	6 621	19 205
Plumbers, pipefitters, and steamfitters	9 348	7 397	12 082	19 205	9 765	9 765	1 195	—	9 659	9 659	—	—	8 443	7 930	4 005	2 005
Other construction trades	5 198	5 494	3 518	5 521	7 469	8 454	—	—	—	—	—	—	3 613	4 214	1 580	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race				Race				Race				Race			
	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	9 833	7 965	16 838	—	6 530	7 655	5 405	—	7 783	7 729	8 050	—	19 693	15 561	25 005	—
Precision production occupations	7 561	7 458	8 208	6 385	9 529	9 728	9 069	7 486	8 705	8 729	8 050	6 952	6 333	6 133	7 745	5 437
Supervisors, production occupations	6 644	6 667	9 693	8 270	11 153	11 408	10 408	8 715	8 705	8 548	8 715	8 396	10 412	10 039	9 893	4 750
Precision metalworking occupations	6 567	7 242	3 820	13 929	9 181	9 671	4 493	19 835	5 486	7 836	2 907	—	6 468	7 177	1 299	—
Tool and die makers	5 618	5 618	—	—	9 805	9 805	—	—	—	—	—	—	—	—	—	—
Mechanics	7 786	7 813	2 222	—	7 878	7 716	2 228	—	6 055	9 544	2 845	—	6 430	7 507	1 299	—
Sheet metal workers	11 995	20 005	—	—	20 005	20 005	—	—	—	—	—	—	—	—	—	—
Other precision metal workers	6 027	6 191	5 777	13 929	10 302	12 156	7 212	19 835	4 768	6 050	3 005	—	6 556	6 556	—	—
Precision textile, apparel, and furnishings machine workers	5 082	4 941	6 234	3 788	6 684	6 523	7 964	3 946	5 763	5 935	2 230	—	4 209	4 209	3 977	3 857
Precision food production occupations	5 061	4 771	6 239	5 563	7 804	8 039	7 348	7 653	5 916	5 841	6 058	—	4 472	4 222	5 541	5 673
Precision inspectors, testers, and related workers	9 438	9 936	9 089	2 495	4 705	4 705	—	—	9 444	8 497	—	—	13 614	14 403	—	2 495
Plant and system operators	9 940	10 060	9 337	11 450	9 180	8 781	11 675	8 505	4 385	4 744	3 719	6 822	9 306	9 454	8 888	12 825
Other precision production occupations	7 692	7 603	8 561	6 884	9 987	9 788	9 775	10 923	7 732	7 695	8 196	—	8 144	6 835	14 736	4 507
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	4 993	4 805	5 942	5 923	7 002	6 767	7 427	6 435	4 907	4 799	5 373	5 269	4 780	4 715	5 311	4 595
Machine operators and leaders, except precision	5 599	5 368	6 516	5 993	6 993	6 837	7 424	6 517	4 450	4 440	3 400	3 374	5 313	5 343	5 249	4 740
Metalworking and plastic working machine operators	5 877	6 651	6 451	6 119	6 976	6 834	7 415	5 225	4 816	4 816	3 532	3 252	5 614	5 659	5 680	5 340
Fabricating machine operators, n.e.c.	3 482	3 482	—	3 620	5 327	5 338	—	—	8 505	8 505	—	—	4 435	4 467	2 362	—
Metal and plastic processing and woodworking machine operators	6 610	6 580	6 680	5 886	9 113	9 449	8 607	5 505	8 336	8 982	5 105	—	—	—	—	—
Printing machine operators	6 967	7 005	6 585	8 725	7 927	7 990	7 901	12 005	8 139	7 646	11 305	505	7 282	7 056	12 005	5 967
Textile machine operators	4 404	3 603	6 151	4 160	3 392	3 100	3 009	6 328	5 503	5 591	5 391	—	4 974	4 974	6 005	6 969
Textile sewing machine operators	6 429	6 320	6 900	5 551	7 433	7 265	8 133	6 328	6 428	6 435	4 789	—	4 524	5 436	3 165	773
Laundry and dry cleaning machine operators	5 720	5 490	6 544	6 021	6 800	6 666	7 237	6 475	4 758	4 667	5 295	5 149	5 814	5 604	7 335	5 355
Foundry and filling machine operators	3 447	3 259	5 151	5 295	6 589	6 369	7 532	6 823	5 268	4 999	6 422	2 565	2 018	1 685	9 805	—
Finance, insurance, and other operators, except food	5 496	5 140	6 863	6 143	12 357	13 315	7 507	6 705	2 173	2 173	5 576	—	9 276	8 866	11 720	—
Other specialized machine operators	5 464	5 156	6 863	6 143	6 905	6 618	7 507	6 705	5 030	4 993	5 576	—	4 021	3 892	4 914	4 306
Miscellaneous and not specified machine operators	5 973	5 647	6 993	6 261	7 261	7 027	7 770	6 776	5 921	5 529	5 891	6 566	4 682	4 575	5 272	4 238
Fabricators, assemblers, and hand working occupations																
Welders and cutters	3 364	2 948	5 108	5 413	7 282	6 601	8 816	7 328	4 896	4 543	5 096	6 650	3 204	3 098	3 231	470
Solders and brazers	2 907	3 337	4 501	4 501	—	—	—	—	5 824	6 252	5 972	—	2 368	2 717	707	—
Assemblers	4 644	5 414	6 501	5 717	8 198	7 185	8 574	—	6 171	6 171	5 415	—	6 605	1 325	—	245
Hand working occupations	3 964	2 867	4 407	5 717	7 437	6 659	9 571	7 328	4 833	5 373	5 415	6 416	3 417	3 134	3 699	605
Production inspectors, testers, samplers, and weighers	3 288	3 362	2 819	740	4 399	4 399	4 858	—	4 028	3 282	265	—	3 903	3 977	7 325	—
Graders and sorters, except agricultural	4 698	4 367	4 070	4 080	7 981	7 956	8 081	6 246	8 355	8 351	11 280	10 005	3 260	3 027	4 355	1 824
Other production inspectors, testers, samplers, and weighers	3 022	2 911	4 119	2 062	6 618	6 817	6 576	4 778	3 613	3 844	—	—	2 588	2 310	4 268	1 395
Transportation and material moving occupations																
Transportation occupations	7 670	7 311	8 805	8 025	8 995	8 663	9 313	9 672	11 135	11 173	11 280	10 005	5 116	4 932	4 682	2 626
Motor vehicle operators	4 693	4 599	5 384	4 614	7 246	6 369	8 994	5 838	5 065	4 766	6 809	4 508	4 768	4 706	5 293	4 735
Truck drivers	4 682	4 590	5 365	4 634	7 154	6 207	9 043	5 838	5 076	4 786	6 805	4 504	4 764	4 704	5 277	4 732
Driver-sales workers	4 842	4 590	5 361	4 641	7 149	6 207	9 055	5 838	5 081	4 790	6 805	4 504	4 764	4 703	5 277	4 732
Other motor vehicle operators	8 859	4 953	9 268	5 273	5 819	5 806	6 370	4 734	5 081	4 818	4 567	4 901	4 661	4 632	5 180	5 499
Rail and water transportation occupations	4 667	4 583	5 317	4 600	8 657	6 644	8 766	7 052	7 143	4 649	14 172	2 938	5 798	5 798	—	—
Material moving equipment operators	4 805	4 350	8 508	4 350	8 574	6 214	8 508	7 052	4 405	5 249	6 278	2 938	4 764	4 702	5 280	4 712
Supervisors, material moving equipment operators	6 606	6 369	7 056	2 314	8 362	8 123	8 248	—	4 122	4 293	6 980	4 685	5 530	5 530	—	—
Crane, hoist and winch operators	12 391	13 336	8 612	—	11 499	15 590	8 612	—	8 805	8 805	—	—	17 403	17 403	—	—
Excavating, grading, and dozer machine operators	14 177	14 177	—	—	—	—	—	—	12 530	12 530	—	—	—	—	—	—
Other material moving equipment operators	6 362	6 362	—	5 235	7 688	7 218	8 035	—	—	—	—	—	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers	5 576	4 955	6 866	767	—	—	—	—	3 916	3 116	6 980	4 685	5 030	3 438	8 135	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	4 136	3 712	5 593	3 952	6 954	6 251	8 232	5 692	4 308	4 382	3 989	4 930	3 796	3 369	5 636	3 312
Helpers, craft and production	8 686	8 828	8 072	11 005	9 725	10 264	10 186	8 244	8 244	8 213	8 498	—	10 118	11 251	7 642	11 005
Construction laborers	5 460	4 775	8 089	5 205	8 061	6 716	10 877	6 816	6 576	6 779	6 424	3 840	2 947	2 787	4 270	3 456
Freight, stock, and material handlers	5 095	4 822	5 885	3 060	6 703	7 385	6 192	—	2 070	2 070	2 230	—	5 438	2 974	11 794	3 060
Garage and service station occupations, and equipment cleaners	4 235	4 267	3 958	2 533	6 478	6 519	6 135	3 175	5 316	6 123	—	—	3 297	3 311	3 627	3 093
Hand packers and packagers	3 739	3 502	3 944	5 530	5 399	5 845	3 273	7 336	3 279	2 974	4 657	1 552	2 789	2 895	2 335	—
Laborers, except construction	3 490	3 192	4 570	3 490	6 896	6 262	7 617	5 567	3 442	3 084	6 005	6 043	3 685	3 645	3 792	2 644
	3 853	3 369	5 377	3 334	6 610	5 767	7 952	4 114	3 754	3 933	3 308	4 962	4 076	3 394	6 492	3 029

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	12 835	13 308	9 258	9 254	12 252	12 691	9 622	9 723	26 689	27 321	15 007	18 088	17 716	18 405	13 516	14 521
Managerial and professional specialty occupations	16 413	16 672	13 544	12 515	14 270	14 545	12 197	12 140	30 099	30 536	19 835	22 585	21 617	22 066	17 687	18 131
Executive, administrative, and managerial occupations	19 680	20 070	16 969	13 867	20 173	20 704	16 436	15 977	27 140	27 447	17 468	22 585	21 055	21 435	17 850	18 458
Officials and administrators, public administration	15 266	15 266	10 969	12 005	15 256	15 757	14 005	10 005	27 140	27 447	17 468	22 585	21 055	21 435	17 850	18 458
Financial managers	22 140	22 749	14 282	13 067	21 925	22 238	14 399	19 283	31 426	31 796	27 714	25 356	26 776	27 214	20 708	22 484
Managers, marketing, advertising, and public relations	22 307	22 479	14 282	13 067	21 925	22 238	14 399	19 283	31 426	31 796	27 714	25 356	26 776	27 214	20 708	22 484
Administrations, education and related fields	20 879	21 141	18 662	16 296	15 640	16 363	12 601	11 165	27 857	28 381	17 165	3 280	23 180	23 463	17 910	17 520
Managers, medicine and health	18 002	18 059	17 993	15 508	17 655	18 308	14 419	13 472	25 821	26 652	14 648	19 097	25 838	26 335	13 746	13 546
Other specialized managers	18 449	18 026	14 195	12 191	20 702	21 186	17 130	16 521	34 697	34 697	19 818	27 684	22 963	23 336	20 569	20 448
Managers and administrators, n.e.c.	18 441	19 005	14 331	11 944	20 785	21 280	17 141	16 538	33 578	33 988	20 474	27 302	22 711	23 300	17 957	19 853
Self-employed	18 633	19 503	11 458	15 600	14 663	14 655	15 839	15 646	41 359	41 359	8 903	31 553	22 711	23 300	17 957	19 853
Management related occupations	15 519	15 876	14 239	10 477	18 283	18 878	14 811	14 721	25 082	25 376	16 490	19 747	19 084	19 433	16 121	16 469
Accountants and auditors	15 154	15 486	14 342	12 256	16 432	16 842	15 174	15 466	25 255	25 540	16 070	19 684	19 307	19 689	16 212	16 525
Personnel, training, and labor relations specialists	15 567	15 482	16 773	10 365	17 069	17 904	13 665	13 276	25 428	26 441	19 266	20 192	18 405	19 014	15 353	15 095
Buyers and purchasing agents	14 606	15 313	8 524	7 906	14 167	14 289	12 640	13 767	18 824	19 142	13 639	19 231	18 069	18 353	15 434	16 763
Inspectors and compliance officers	12 627	13 181	9 086	7 087	14 854	14 115	20 211	12 034	16 104	16 101	17 075	14 126	18 356	18 563	15 864	16 794
Other management related occupations	17 145	17 805	12 211	9 403	22 030	22 335	16 977	17 185	25 788	26 106	18 490	22 965	22 523	22 938	18 953	18 543
Professional specialty occupations	15 636	15 873	12 417	12 184	12 294	12 502	10 690	10 568	31 283	31 785	20 746	22 932	22 448	22 999	17 426	17 617
Engineers, architects, and surveyors	19 709	20 444	14 619	12 844	22 044	22 524	13 400	13 422	25 831	26 081	19 880	20 785	24 720	25 079	17 880	21 330
Architects	15 569	15 789	12 887	29 005	22 219	22 524	12 905	17 188	26 321	26 622	20 612	21 254	21 708	21 962	16 594	17 368
Engineers	20 044	20 838	14 962	19 081	23 047	22 984	13 947	24 516	26 729	27 039	20 779	23 569	25 142	25 489	20 540	21 814
Civil engineers	17 789	20 012	6 873	9 983	20 879	22 212	17 058	26 704	26 309	26 516	21 948	24 547	23 536	23 852	18 938	20 892
Electrical and electronic engineers	19 323	19 649	15 509	9 983	20 907	20 963	17 058	19 449	26 069	26 375	22 324	23 986	27 324	27 516	25 420	25 420
Industrial engineers	17 873	18 777	14 838	16 056	22 044	22 255	24 255	24 255	26 309	26 375	22 324	23 986	27 324	27 516	25 420	25 420
Mechanical engineers	19 150	19 931	14 838	16 056	22 044	22 255	24 255	24 255	26 309	26 375	22 324	23 986	27 324	27 516	25 420	25 420
Other engineers	21 193	22 285	16 627	30 265	25 197	24 710	22 039	27 390	27 590	27 979	20 672	23 549	25 986	26 389	20 690	19 929
Surveyors and mapping scientists	13 512	13 512	13 512	15 844	15 844	15 844	15 844	15 844	16 706	16 706	8 641	13 043	14 815	15 359	20 433	21 544
Computer systems analysts and scientists	16 417	16 703	21 345	20 817	19 261	19 190	23 313	23 313	24 232	24 635	17 700	19 598	24 991	25 130	24 072	21 929
Operations and systems researchers and analysts	24 313	24 172	28 505	18 360	19 321	19 321	11 365	13 422	24 372	24 635	17 700	19 598	24 991	25 130	24 072	21 929
Mathematical scientists	16 726	16 744	29 505	12 181	19 184	19 184	17 328	18 364	32 355	33 185	18 052	19 882	24 351	23 678	21 344	24 134
Natural scientists	16 106	16 451	12 170	17 237	16 987	17 328	15 684	18 364	24 045	24 430	17 298	15 622	20 720	20 906	18 098	17 550
Chemists, except biochemists	13 454	13 931	11 310	12 550	20 402	21 612	17 058	17 278	21 661	22 128	15 154	13 692	22 712	22 880	21 380	18 622
Other natural scientists	16 744	17 002	12 570	17 792	16 599	16 912	15 029	18 846	24 555	24 896	17 919	13 769	20 415	20 622	17 164	17 399
Health diagnosing occupations	43 677	44 852	34 151	38 721	49 567	50 117	36 118	53 163	39 156	38 632	47 581	35 352	32 963	32 967	26 825	31 916
Health assessment and treating occupations	15 099	15 340	12 922	6 672	13 316	13 721	10 013	10 583	22 831	24 219	9 512	13 005	16 888	17 285	13 344	15 283
Registered nurses	17 156	17 688	15 268	4 705	15 830	15 951	17 971	10 198	28 363	28 363	9 512	13 005	16 444	16 946	12 167	10 589
Other health assessment and treating occupations	14 612	14 811	12 141	7 163	12 785	13 217	8 829	10 738	20 877	22 554	9 512	13 005	16 444	16 946	12 167	10 589
Teachers, except postsecondary	12 735	12 866	11 121	10 641	8 575	9 178	6 371	7 343	13 430	13 817	10 264	8 373	16 613	17 419	12 635	10 449
Social scientists and urban planners	18 433	18 461	23 458	14 049	19 373	19 752	15 521	17 764	25 974	25 917	24 732	18 310	22 406	22 751	18 942	17 660
Social and recreation workers	11 179	11 867	9 512	8 101	13 043	13 538	11 792	10 867	23 438	25 877	10 059	14 845	15 196	15 664	13 455	13 239
Lawyers and judges	32 857	33 024	30 480	10 539	19 355	19 707	14 932	11 094	39 170	39 517	25 375	30 780	28 225	28 457	26 117	22 728
Writers, artists, entertainers, and athletes	10 958	11 180	9 257	10 539	12 204	12 599	6 887	8 877	16 162	16 341	12 877	13 186	18 663	19 196	15 315	15 210
Other professional specialty occupations	17 959	18 306	13 171	13 335	11 536	11 666	10 265	9 374	22 985	23 489	14 046	15 671	16 972	17 689	13 848	14 585
Technical, sales, and administrative support occupations	7 558	7 710	6 247	6 589	11 414	12 013	8 624	8 842	14 562	14 878	10 851	11 579	16 748	17 547	12 757	13 288
Technicians and related support occupations	9 562	9 640	8 595	8 706	13 738	14 292	9 203	12 825	14 462	14 582	12 573	12 610	18 845	19 196	16 066	15 597
Health technicians and technicians	12 308	12 947	8 855	10 580	12 610	13 060	9 587	14 608	16 818	18 089	8 890	22 093	13 756	17 335	13 289	15 736
Licensed practical nurses	9 234	9 234	8 855	10 580	7 789	7 389	12 105	15 005	17 989	20 486	8 005	28 005	13 037	16 101	6 303	8 150
Other health technicians and technicians	12 330	12 980	8 855	10 580	12 972	13 578	9 479	14 531	16 705	17 851	9 197	18 583	16 951	17 386	14 226	13 334
Engineering and science technicians	7 233	7 270	7 280	5 799	13 741	14 360	7 481	12 861	14 316	14 408	12 647	12 585	17 660	17 923	15 467	14 751
Electrical and electronic technicians	10 654	10 744	9 035	7 999	13 450	14 991	8 481	12 352	17 954	18 203	14 650	15 836	20 888	21 069	18 528	18 655
Industrial and mechanical engineering technicians	5 727	5 727	5 727	5 727	16 075	15 888	8 747	10 414	15 610	15 610	8 747	10 414	19 716	20 860	12 468	16 818
Drafting and surveying technicians	10 704	10 798	8 919	14 165	12 983	13 433	7 967	11 615	13 757	13 792	12 750	12 401	14 772	14 899	14 111	12 379
Other engineering and science technicians	6 199	6 232	6 514	4 629	15 042	16 020	5 824	13 353	16 330	16 330	11 290	13 375	16 680	17 045	13 449	13 922
Technicians, except health, engineering, and science	10 476	10 561	9 604	10 362	14 002	14 498	10 244	12 335	15 010	15 221	12 427	12 160	19 771	20 117	16 716	16 658
Airplane pilots and navigators	15 470	15 470	15 470	7 505	22 684	22 684	6 401	11 530	27 703	28 821	5 327	—	23 553	23 658	9 883	27 148
Air traffic controllers and broadcast equipment operators	4 983	5 221	2 226	1 641	9 988	10 689	640	11 530	14 903	15 346	5 327	—	20 716	20 716	17 660	17 518
Computer programmers	9 473	9 599	7 358	11 307	15 513	15 895	10 142	15 012	16 243							

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	12 426	12 990	7 848	9 812	15 284	15 649	11 431	9 089	23 059	23 451	16 851	19 011	17 241	13 562	13 587	
Supervisors and proprietors, sales occupations	16 282	16 768	13 620	14 120	21 288	22 183	13 043	13 998	23 034	23 925	19 279	15 278	19 830	16 480	23 209	
Salaried	14 077	14 343	13 620	14 120	19 674	20 482	13 043	13 998	20 975	20 975	19 279	15 278	19 830	16 480	23 209	
Self-employed	48 764	48 764	2 005	—	16 749	16 749	—	1 805	24 888	25 291	19 138	20 043	19 278	17 326	15 437	
Sales representatives, finance and business services	12 531	10 505	—	—	31 919	31 919	—	—	28 932	28 731	19 005	20 043	19 278	17 326	15 437	
Sales representatives, commodities, except retail	10 505	10 505	—	—	14 861	15 226	—	—	12 945	12 945	13 546	13 338	14 029	10 495	11 054	
Sales workers, retail and personal services	11 972	12 513	7 287	9 345	7 318	7 706	6 859	2 943	6 944	7 531	10 094	13 005	11 177	10 013	11 305	
Cashiers	4 781	5 072	2 694	4 837	15 184	15 480	11 846	9 728	13 755	13 846	14 910	19 569	15 491	10 362	10 953	
Other sales occupations, retail and personal services	14 606	15 079	9 856	10 429	15 837	12 312	11 594	4 005	19 572	19 572	18 610	19 569	15 491	10 362	10 953	
Sales related occupations	14 796	—	—	—	10 113	10 569	8 329	8 232	13 337	13 929	15 770	9 029	16 686	12 062	12 518	
Administrative support occupations, including clerical	5 661	5 705	5 518	5 519	16 323	17 008	13 074	14 007	24 493	25 034	16 514	16 924	20 900	17 100	17 195	
Supervisors, administrative support occupations	12 380	12 323	12 327	12 615	16 323	17 008	13 074	14 007	24 493	25 034	16 514	16 924	20 900	17 100	17 195	
Computer equipment operators	4 973	4 973	4 973	4 973	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	
Secretaries, stenographers, and typists	4 973	4 973	4 973	4 973	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	
Secretaries	5 645	5 540	5 488	5 488	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	
Stenographers and typists	3 670	3 488	4 024	3 704	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	12 370	
Receptionists	3 130	3 190	2 864	3 114	4 672	5 053	4 024	5 428	8 412	9 171	12 255	6 842	15 070	8 970	10 685	
Other information clerks	5 025	5 114	4 183	5 328	7 470	7 828	6 553	5 408	9 776	10 418	11 703	6 435	12 564	8 435	9 950	
File clerks	2 957	3 089	2 724	3 003	6 641	7 589	7 578	2 119	6 403	6 127	7 446	5 120	8 733	5 753	8 790	
Other records processing occupations, except financial	3 631	3 696	3 131	4 003	6 641	7 589	7 578	2 119	6 403	6 127	7 446	5 120	8 733	5 753	8 790	
Bookkeepers, accounting, and auditing clerks	8 095	7 675	8 759	9 052	9 374	9 502	8 058	9 360	12 332	12 950	16 820	9 783	17 479	13 305	12 707	
Payroll and timekeeping clerks	5 106	5 068	6 222	5 429	8 429	8 483	6 134	9 350	9 662	9 350	11 568	6 864	12 144	10 158	11 628	
Other manual records processing occupations	10 441	10 441	12 436	11 278	11 785	12 774	6 043	8 849	14 843	15 047	13 916	8 849	12 295	15 138	16 435	
Taken-out operators	3 065	3 046	3 426	3 410	5 623	6 093	4 706	5 977	8 705	8 705	12 048	7 677	10 899	8 904	10 571	
Mail and message distributing occupations	4 447	4 393	4 724	4 501	6 189	6 717	5 356	7 688	5 700	5 638	8 886	5 777	10 899	8 904	10 571	
Product coordinators and expeditors	8 573	8 848	8 714	8 501	12 804	13 116	6 997	7 187	17 852	18 128	16 762	9 130	16 762	14 327	16 136	
Traffic, shipping, and receiving clerks	7 854	7 891	7 717	7 808	9 370	9 922	6 056	7 108	17 852	18 128	16 762	9 130	16 762	14 327	16 136	
Stock, shipping, and receiving clerks	6 210	6 032	6 801	6 306	9 370	9 922	6 056	7 108	17 852	18 128	16 762	9 130	16 762	14 327	16 136	
Other material handling, scheduling, and distributing clerks	6 450	6 557	7 845	5 505	9 442	9 395	6 492	15 571	18 743	18 377	13 263	17 283	13 879	11 917	10 625	
Adjusters and investigators	13 617	13 768	13 520	14 325	12 345	12 804	11 234	16 945	15 867	15 426	16 524	17 174	13 879	11 917	10 625	
Drafting and design occupations	6 463	6 890	2 623	5 325	9 065	9 104	7 735	6 518	11 231	10 426	10 538	14 503	11 386	9 288	14 786	
Other administrative support occupations	5 582	5 791	5 009	5 325	9 302	9 820	7 713	7 423	10 291	10 673	12 763	8 436	13 741	10 341	10 023	
Service occupations																
Private household occupations	6 565	6 621	6 505	6 836	6 209	6 277	5 961	6 365	9 203	9 569	16 033	8 199	16 601	12 605	14 027	
Protective service occupations	6 622	6 355	8 093	6 794	6 958	6 772	7 899	6 823	11 196	11 560	17 104	9 619	17 374	14 880	16 197	
Guards	6 349	6 078	7 782	6 537	6 607	6 360	7 899	6 823	11 196	11 560	17 104	9 619	17 374	14 880	16 197	
Other protective service occupations	12 549	12 085	15 891	9 098	12 845	12 756	17 392	10 005	17 147	17 601	13 408	22 317	17 509	15 499	16 700	
Service occupations, except protective and household	6 557	6 638	6 298	6 840	6 163	6 246	5 841	6 333	7 787	7 862	9 089	7 508	9 829	7 712	7 888	
Food preparation and service occupation	3 939	3 785	4 631	4 927	5 952	5 832	6 392	6 357	8 171	8 320	6 995	6 777	9 613	8 024	8 400	
Health service occupations	7 756	7 516	5 580	7 332	7 728	8 454	6 164	7 755	9 366	9 888	6 719	9 505	11 244	12 064	9 324	
Cleaning and building service occupations, except household	7 504	6 882	6 882	3 897	5 990	6 070	6 444	6 405	7 539	7 757	9 553	7 371	9 553	7 611	7 866	
Personal service occupations	4 289	4 305	4 220	3 897	6 816	7 151	6 066	5 837	8 708	9 042	5 343	7 689	10 388	7 553	7 237	
Farming, forestry, and fishing occupations	7 134	7 301	6 869	7 543	6 193	6 185	7 003	5 522	9 363	9 621	9 503	8 614	10 077	7 350	8 500	
Precision production, craft, and repair occupations																
Mechanics and repairers	11 540	11 745	10 321	9 255	12 026	12 587	8 599	8 617	18 510	18 869	16 077	15 614	16 514	13 304	14 587	
Supervisors, mechanics and repairers	10 390	10 500	9 689	10 419	10 665	11 179	7 630	6 157	16 573	16 754	16 221	14 563	16 476	13 857	15 106	
Automobile mechanics, including body	11 254	11 168	8 005	12 691	9 566	20 721	7 734	3 980	22 627	23 326	21 270	18 232	21 431	19 105	19 141	
Industrial machinery repairers	10 589	10 643	10 250	11 031	9 328	9 690	7 032	6 793	14 645	14 455	14 552	16 316	14 726	13 153	13 387	
Electronic repairers, communications and industrial equipment	7 596	8 034	6 038	4 540	9 348	9 348	—	5 490	15 046	15 306	13 393	17 808	18 413	16 905	17 826	
Heating, air conditioning, and refrigeration mechanics	13 055	13 200	12 109	13 547	10 980	10 980	—	9 753	17 692	17 847	16 818	7 005	16 818	16 251	17 485	
Other mechanics and repairers	10 498	10 595	9 016	10 182	11 257	11 606	9 084	7 278	16 594	16 714	16 312	15 326	16 605	13 636	15 424	
Construction trades																
Supervisors, construction occupations	15 031	15 375	10 144	16 987	12 280	13 009	7 956	9 265	22 742	22 742	18 518	17 022	18 209	15 269	12 588	
Carpenters	10 255	10 547	8 228	8 481	9 903	9 903	5 811	6 718	11 421	11 800	9 494	13 458	14 899	14 899	17 291	
Electricians	12 650	12 850	11 661	8 481	7 178	7 903	14 315	16 261	11 582	11 800	8 840	13 458	14 899	14 899	17 291	
Painters, construction and maintenance	9 802	10 060	7 421	10 089	7 177	7 237	15 154	16 967	11 043	11 043	14 817	12 022	12 022	10 305	14 630	
Plumbers, pipefitters, and steamfitters	13 105	13 363	11 334	10 089	17 130	17 130	12 737	14 516	21 914	21 914	15 237	17 754	12 022	10 305	14 630	
Other construction trades	10 340	10 745	9 151	6 687	11 639	12 791	6 556	9 276	11 282	11 587	12 531	16 268	13 126	10 484	11 447	

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over—Con.

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	11 728	11 728	13 030	—	23 905	23 905	11 029	—	19 917	20 661	14 255	9 405	17 806	19 228	9 057	10 719
Precision production occupations	13 618	13 618	13 185	9 681	12 550	12 709	11 029	9 428	19 834	20 241	14 255	9 405	18 013	18 406	15 614	16 020
Supervisors, production occupations	12 699	12 745	13 185	7 021	13 156	13 252	12 771	10 223	22 811	23 137	17 486	11 773	16 992	17 773	15 617	17 570
Precision metalworking occupations	14 938	15 276	11 737	9 930	16 218	16 116	24 296	2 505	15 736	15 876	12 090	12 090	17 473	17 120	14 806	15 617
Tool and die makers	26 372	27 980	7 980	—	6 454	7 958	38 978	2 505	17 782	17 538	—	—	19 978	20 345	12 648	20 985
Machinists	15 233	16 451	8 636	4 205	14 325	12 478	15 145	22 095	15 480	15 077	10 772	10 772	18 718	17 274	13 733	16 243
Other precision metal workers	16 516	16 351	20 285	10 815	18 933	19 145	105	6 749	17 403	17 011	25 005	14 015	16 995	17 153	15 601	14 852
Precision textile, apparel, and furnishings machine workers	12 477	12 479	12 743	2 503	4 414	4 617	3 126	—	13 548	13 042	4 005	12 712	13 957	17 135	16 291	17 124
Precision food production occupations	7 732	7 650	7 005	9 223	11 645	12 726	9 898	15 005	13 348	13 042	12 712	—	13 680	14 274	12 796	9 868
Precision inspectors, testers, and related workers	5 571	9 285	7 005	9 223	12 459	12 726	20 785	15 005	12 898	13 042	12 712	—	13 680	14 274	12 796	9 868
Plant and system operators	15 467	15 820	14 037	13 028	15 372	15 566	10 625	10 316	21 321	22 075	13 115	13 115	19 882	18 049	16 709	17 176
Other precision production occupations	11 800	12 209	5 396	6 646	4 988	4 990	3 355	5 604	14 689	14 781	24 005	16 110	15 009	16 181	12 457	9 984
Operators, fabricators, and laborers—																
Machine operators, assemblers, and inspectors	7 068	7 197	6 612	6 542	6 594	6 584	6 842	6 390	11 024	11 180	10 471	9 402	12 039	12 554	10 929	11 252
Machine operators and tenders, except precision	7 470	7 547	7 612	5 383	6 637	6 701	6 494	6 269	12 840	13 090	11 708	11 524	14 487	14 921	12 799	13 887
Metalworking and plastic working machine operators	7 788	7 768	8 428	6 041	7 653	7 745	7 505	3 005	12 260	12 490	11 679	11 264	14 200	14 576	13 058	13 536
Fabricating machine operators, n.e.c.	5 605	5 605	7 001	9 005	7 758	8 092	3 520	3 005	17 465	19 215	12 678	7 792	14 967	15 361	11 685	15 023
Metal and plastic processing and woodworking machine operators	5 417	5 393	10 005	3 877	4 107	3 882	7 717	2 988	15 136	16 120	10 199	13 730	15 002	15 066	14 405	16 328
Printing machine operators	8 120	7 958	9 768	6 506	9 878	9 944	9 392	10 546	11 931	12 000	11 279	11 104	15 058	15 155	15 712	10 844
Textile machine operators	9 928	9 928	—	3 005	10 854	14 366	—	—	15 263	16 005	14 045	—	13 151	15 003	8 622	—
Textile sewing machine operators	10 723	10 723	—	—	4 338	4 708	1 805	—	17 485	18 381	13 005	6 005	9 297	20 107	4 461	16 845
Laundry and dry cleaning machine operators	3 973	3 796	2 430	6 823	5 816	5 718	6 529	5 966	16 237	16 237	5 005	—	10 880	10 572	11 715	11 992
Food processing and filling machine operators	1 577	3 703	3 703	7 395	10 037	10 244	7 382	4 855	16 849	15 073	13 442	—	12 421	11 846	14 462	16 530
Funeral, jan, and oven operators, except food	11 813	11 924	10 848	5 131	6 498	6 750	8 009	8 373	10 677	11 071	9 148	10 777	13 149	13 185	13 462	13 401
Other specified machine operators	5 051	4 752	7 303	5 973	7 377	7 557	7 045	8 373	11 811	11 709	12 735	11 771	13 101	13 672	11 260	11 993
Miscellaneous and not specified machine operators	7 588	7 761	7 303	5 973	7 377	7 557	7 045	8 373	11 811	11 709	12 735	11 771	13 101	13 672	11 260	11 993
Fabricators, assemblers, and hand working occupations	7 010	7 747	3 907	3 895	5 830	5 926	5 439	4 143	11 856	12 108	10 340	11 509	13 773	14 335	11 102	13 688
Welders and cutters	8 778	9 026	4 825	4 725	12 816	12 816	10 957	9 385	14 400	14 776	11 942	11 734	14 351	14 731	11 850	13 901
Solders and brazers	20 005	20 005	—	—	3 495	2 834	7 505	2 273	4 031	4 031	8 071	5 797	13 165	14 924	14 845	11 701
Assemblers	5 748	5 778	838	1 924	2 498	2 635	2 635	2 273	9 408	12 201	2 005	—	13 687	13 687	10 530	11 880
Hand working occupations	5 143	5 178	6 234	2 048	2 535	2 635	4 813	4 200	11 501	16 662	14 530	14 749	13 708	14 190	10 274	13 182
Production inspectors, testers, samplers, and weighers	4 096	4 133	6 234	2 048	5 074	5 038	4 561	4 200	16 872	16 662	14 530	14 749	16 864	17 116	14 272	16 637
Graders and sorters, except agricultural	2 633	2 525	6 234	2 422	2 141	2 008	2 587	4 205	2 879	2 879	—	—	12 684	12 846	9 784	14 773
Other production inspectors, testers, samplers, and weighers	8 999	9 438	—	475	10 403	11 134	7 523	4 194	16 886	16 993	14 530	14 749	17 568	17 705	15 774	16 874
Transportation and material moving occupations																
Transportation occupations	7 771	7 925	6 965	8 327	7 821	8 059	7 441	6 884	12 643	13 242	11 084	10 938	12 487	12 803	11 787	11 628
Motor vehicle operators	7 613	7 722	6 986	8 463	7 247	7 407	7 060	6 519	11 026	11 221	11 115	10 117	11 987	12 189	11 660	11 024
Truck drivers	7 562	7 661	6 986	8 463	7 081	7 193	7 009	6 538	10 477	10 586	10 691	10 117	11 863	12 030	11 622	10 977
Driver-sales workers	7 106	7 459	9 938	8 628	7 341	7 546	7 037	6 821	10 387	10 512	10 899	9 041	11 944	12 073	11 337	11 078
Other motor vehicle operators	7 502	7 711	6 200	8 500	6 738	6 909	6 005	6 005	7 413	7 432	7 005	13 693	11 944	12 559	12 950	12 571
Rail and water transportation occupations	18 000	18 000	—	—	19 719	22 524	13 776	2 045	10 965	11 666	10 363	13 693	14 934	12 457	10 658	10 658
Material moving equipment operators	11 694	13 040	6 336	6 424	13 267	13 490	12 936	10 018	16 407	17 776	11 011	14 654	14 457	14 594	14 003	13 236
Supervisors, material moving equipment operators	12 049	13 040	6 336	6 424	13 267	13 490	12 936	10 018	16 407	17 776	11 011	14 654	14 457	14 594	14 003	13 236
Crane, hoist, and winch operators	6 890	7 305	8 005	1 005	19 276	18 390	9 357	26 555	17 526	17 421	17 880	17 526	19 115	19 331	17 707	17 135
Excavating, grading, and dozer machine operators	7 197	7 305	8 005	1 005	18 375	18 375	18 375	1 815	17 051	17 244	15 039	3 005	16 739	17 606	12 824	18 174
Other material moving equipment operators	12 456	13 938	5 286	7 536	11 935	12 347	11 186	10 510	17 138	19 195	10 236	18 648	12 456	12 614	11 941	13 031
Handlers, equipment cleaners, helpers, and laborers	4 955	5 001	4 867	5 058	5 398	5 189	6 249	6 104	8 601	8 652	8 591	6 968	9 648	10 044	9 193	9 222
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	22 228	23 443	19 105	—	9 695	10 220	8 561	5 562	17 700	17 823	16 172	23 527	20 229	20 344	20 255	—
Helpers, craft and production	5 450	5 214	7 647	3 151	5 377	5 743	3 828	5 562	7 721	7 187	6 038	6 288	8 340	8 778	7 704	7 818
Construction laborers	7 530	8 045	3 886	6 847	9 165	10 061	8 191	6 189	15 301	16 926	12 719	7 759	9 738	10 728	8 715	8 715
Freight, stock, and material handlers	3 948	4 035	3 830	4 064	8 581	8 293	10 123	10 152	9 681	9 309	12 415	5 064	9 580	10 175	8 689	10 524
Garage and service station occupations, and equipment cleaners	3 190	3 325	1 617	2 005	4 961	3 882	10 526	1 639	7 913	8 257	6 305	—	9 787	9 651	10 291	8 774
Hand packers and packagers	3 632	3 125	6 505	—	2 373	2 071	4 526	4 121	7 275	6 520	7 985	4 090	12 989	12 268	13 701	13 044
Laborers, except construction	4 844	4 959	4 404	6 251	4 512	4 394	4 842	5 660	8 708	8 948	—	7 508	9 330	9 736	8 912	8 811

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	6 610	6 567	7 198	5 772	6 361	6 268	6 843	5 986	9 052	9 042	9 106	8 594	9 829	9 942	9 634	8 313
Managerial and professional specialty occupations	8 168	8 088	10 161	7 643	7 972	7 799	8 966	7 770	11 272	11 239	11 700	11 645	13 010	13 047	13 044	11 399
Executive, administrative, and managerial occupations	10 274	10 120	12 019	9 534	10 407	10 289	11 192	10 138	11 599	11 573	11 893	11 687	13 114	13 011	13 009	11 745
Office, administrative, and public administration	13 485	13 089	15 922	13 255	12 815	12 815	11 653	12 112	15 703	15 564	17 641	21 027	17 976	17 834	14 120	11 970
Financial managers	11 813	11 813	13 912	13 215	11 324	11 324	12 528	10 434	11 138	11 151	8 727	15 300	15 631	17 376	17 345	14 370
Managers, marketing, advertising, and public relations	11 064	10 818	13 912	9 911	8 294	8 010	9 852	7 109	9 131	9 301	—	15 300	16 308	15 895	18 312	11 005
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	15 308	12 800	34 964	11 405
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	16 220	16 833	14 876	15 737
Other specified managers	11 984	11 335	16 583	15 066	12 432	12 264	13 481	10 869	15 183	15 341	15 615	15 471	16 509	16 675	16 335	14 092
Managers and administrators, n.e.c.	8 739	8 713	9 165	8 106	10 747	10 641	11 615	10 322	13 074	13 074	13 074	12 636	13 644	13 713	13 667	11 383
Managers, sales and related occupations	8 800	8 779	9 206	8 372	10 899	10 806	11 692	10 444	13 416	13 416	13 416	13 243	13 644	13 713	13 667	11 383
Self-employed	6 454	6 179	7 051	2 768	8 006	7 717	9 958	7 465	8 704	8 650	6 582	3 638	—	—	—	—
Management related occupations	10 001	10 002	9 968	9 998	10 901	10 832	11 057	11 456	10 771	10 739	10 830	10 655	12 716	12 631	13 213	11 570
Accounting and related occupations	10 001	10 002	9 968	9 998	10 901	10 832	11 057	11 456	10 771	10 739	10 830	10 655	12 716	12 631	13 213	11 570
Accounting, clerical, and labor relations specialists	10 335	10 263	10 997	10 741	10 937	10 741	11 084	9 384	10 986	10 959	10 961	10 918	12 125	11 971	12 808	10 436
Buyers and purchasing agents	9 951	10 045	8 597	8 980	10 941	11 002	10 654	11 928	12 141	12 185	11 351	13 917	12 817	12 819	13 096	11 327
Inspectors and compliance officers	6 078	5 964	9 435	7 005	6 734	6 366	9 987	12 859	11 279	11 594	10 345	8 523	12 984	13 054	12 651	12 627
Other management related occupations	9 992	10 106	9 093	11 077	11 518	11 307	13 087	13 284	8 609	8 549	9 886	7 362	12 430	12 269	12 943	12 632
Professional specialty occupations	7 895	7 767	9 796	7 348	7 129	6 912	8 295	7 083	10 988	10 949	11 543	11 607	12 860	13 103	14 720	13 737
Engineers, architects, and surveyors	9 912	10 336	7 432	545	9 960	9 938	12 697	12 941	14 136	14 095	11 895	14 033	12 660	13 103	12 114	10 920
Architects	12 143	11 340	16 894	—	12 442	12 818	20 343	12 905	14 326	12 525	11 895	14 033	15 322	14 100	12 136	16 335
Engineers	9 483	10 081	5 907	545	9 504	9 506	9 737	13 772	16 286	16 487	9 193	17 493	15 322	12 667	11 561	12 581
Civil engineers	9 216	10 081	6 653	—	16 012	18 104	—	16 012	15 290	15 329	9 193	15 970	14 794	14 489	9 812	12 198
Electrical and electronic engineers	6 468	6 468	—	—	4 983	3 649	—	8 765	17 973	18 293	6 305	20 405	18 410	18 022	21 005	18 082
Industrial engineers	12 940	14 416	545	545	11 408	11 413	12 315	17 250	10 692	10 727	5 744	13 783	14 451	14 952	12 393	15 876
Mechanical engineers	4 291	2 501	2 951	—	11 359	11 359	—	—	18 876	19 649	15 905	18 005	13 221	12 479	16 314	7 545
Other engineers	10 522	10 541	8 895	—	9 737	10 130	—	—	16 705	16 816	15 905	18 651	14 147	14 564	10 377	19 298
Surveyors and mapping scientists	6 888	6 888	—	—	14 285	14 285	—	—	8 147	8 055	11 005	5 706	9 754	9 713	9 005	—
Computer systems analysts and scientists	11 956	11 717	12 729	7 019	14 046	14 868	10 597	16 125	14 903	15 225	16 089	5 368	18 655	18 982	17 057	14 159
Operations and systems researchers and analysts	9 531	8 153	7 527	10 303	12 708	13 322	15 425	8 407	12 293	12 465	16 205	10 005	18 662	18 849	18 068	15 090
Mathematical scientists	8 407	8 407	—	—	16 038	16 382	—	—	12 465	12 465	—	—	16 174	16 174	16 332	14 001
Natural scientists	9 002	9 002	—	—	9 460	9 316	9 750	12 971	15 753	16 362	8 341	12 733	13 683	13 479	15 472	14 001
Chemists, except biochemists	10 171	8 349	14 455	8 902	11 251	8 721	—	12 003	14 668	14 046	10 477	15 928	16 121	16 045	17 478	12 561
Other natural scientists	10 345	10 483	8 858	10 388	9 321	9 236	9 750	12 003	11 930	11 783	13 208	10 588	13 061	12 866	14 898	14 708
Health diagnosing occupations	23 266	22 508	23 907	21 536	20 807	18 383	27 147	19 468	13 841	12 886	11 338	24 712	22 190	22 148	17 442	20 201
Health assessment and treating occupations	9 559	9 467	10 997	9 356	10 108	10 020	10 836	8 359	10 998	10 936	11 321	8 807	12 855	12 903	12 536	12 050
Registered nurses	9 793	9 639	12 375	10 753	10 793	10 628	12 297	7 722	11 794	11 549	13 884	19 660	13 562	13 446	13 964	15 649
Other health assessment and treating occupations	9 168	9 173	9 316	7 475	8 773	8 822	8 303	6 226	9 897	10 077	8 788	3 983	10 912	11 272	9 845	8 351
Teachers, except postsecondary	7 405	7 287	9 539	6 893	4 447	4 183	4 956	4 956	5 386	5 415	4 266	5 310	7 708	7 354	9 389	7 473
Social scientists and urban planners	12 170	12 300	12 003	9 900	12 308	11 871	15 134	12 287	13 188	13 352	9 313	9 947	15 078	15 394	13 481	11 908
Social and recreation workers	9 834	9 911	9 834	12 761	9 880	9 901	9 985	8 738	8 701	8 419	10 359	6 259	11 336	11 507	11 507	10 166
Lawyers and judges	15 377	15 240	20 168	11 661	11 209	11 738	8 397	12 912	15 264	15 359	14 225	14 286	16 537	16 579	16 964	13 008
Writers, artists, entertainers, and athletes	7 087	7 083	8 004	4 822	5 953	5 873	7 466	6 195	6 722	6 682	8 472	8 398	12 446	12 131	8 772	10 086
Other professional specialty occupations	9 078	9 004	10 350	8 252	6 292	6 206	7 265	6 195	10 221	10 201	10 708	8 693	12 576	13 009	11 330	10 364
Technical, sales, and administrative support occupations	5 364	5 331	5 775	4 759	6 486	6 575	7 420	6 581	8 289	8 261	8 764	7 930	9 066	9 122	9 049	7 841
Technicians and related support occupations	7 023	6 831	8 027	6 923	8 004	8 022	9 327	7 955	9 623	9 623	8 764	9 075	10 754	10 676	11 307	9 282
Health technologists and technicians	9 259	9 131	8 038	8 962	8 497	8 347	9 373	6 923	9 607	9 634	9 576	10 188	10 653	10 398	10 208	9 286
Licensed practical nurses	7 396	7 183	8 088	5 247	7 150	6 717	9 053	5 178	9 366	9 211	7 373	10 005	9 412	8 492	10 628	8 556
Other health technologists and technicians	9 714	9 577	9 397	8 220	10 502	10 239	11 156	8 706	9 894	9 894	10 305	11 344	11 544	11 490	11 978	10 923
Engineering and science technicians	4 934	4 934	9 576	4 438	8 310	8 281	8 500	8 177	8 553	8 519	9 117	8 161	10 934	10 828	11 212	9 421
Electrical and electronic technicians	6 685	7 202	5 532	5 138	10 443	9 518	16 125	—	11 330	11 350	10 005	5 550	13 068	12 710	12 350	12 325
Industrial and mechanical engineering technicians	10 364	10 364	—	—	6 093	6 093	—	—	10 219	10 228	10 005	—	12 796	12 796	12 796	6 678
Drafting and surveying technicians	5 155	5 580	305	3 505	7 369	7 316	7 659	4 255	8 066	8 268	9 340	8 335	10 377	10 377	10 975	8 069
Other engineering and science technicians	4 834	4 367	10 085	8 869	8 869	8 936	8 270	6 195	9 052	9 103	8 178	7 861	10 233	10 190	9 563	8 979
Technicians, except health, engineering, and science	7 433	7 382	8 469	7 001	9 827	9 951	8 951	10 364	10 376	10 385	10 299	10 087	10 721	10 664	11 356	9 249
Airplane pilots and navigators	11 980	11 980	—	—	26 885	26 885	—	—	5 725	5 725	—	—	12 181	11 248	9 905	—
Air traffic controllers and broadcast equipment operators	3 803	2 889	9 005	—	5 117	5 983	5 176	7 005	12 335	12 335	5 615	9 265	8 982	8 961	9 905	8 442
Computer programmers	8 860	9 730	11 767	8 467	10 736	11 432	8 667	19 621	11 911	12 555	13 302	9 265	13 922	14 068	13 813	13 901
Other technicians, except health, engineering, and science	7 156	7 156	7 815	6 897	9 700	9 643	10 121	8 860	10 218	10 233	9 957	10 178	11 557	11 572	11 721	9 195

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

United States

Employed females 16 years and over—Con.		Technical, sales, and administrative support occupations—Con.																											
		4 426	4 411	4 628	4 165	5 979	5 981	5 303	5 034	6 927	7 040	6 049	4 685	8 092	8 164	7 712	6 123												
		8 563	8 453	10 292	13 696	9 900	8 929	7 333	6 545	10 090	10 326	8 693	8 841	14 643	14 313	17 373	9 155												
		8 547	8 427	10 292	13 696	10 590	9 523	7 333	6 545	11 166	11 324	8 693	12 482	14 643	14 313	17 373	9 155												
		8 795	8 795	—	—	5 716	5 716	—	—	2 886	2 712	7 673	—	—	—	—	—												
		8 465	8 465	—	12 355	7 147	7 859	5 258	22 005	12 358	10 713	7 673	7 576	13 322	12 909	12 772	13 428												
		—	—	—	—	—	—	—	—	12 534	10 713	—	—	12 103	11 916	13 518	—												
		4 174	4 304	4 404	3 766	5 717	5 759	5 154	4 831	5 322	5 331	3 064	3 064	7 229	7 286	7 056	5 639												
		3 390	3 350	3 957	3 637	5 114	5 191	4 517	5 017	3 932	5 331	3 932	5 111	7 373	7 454	7 062	5 822												
		6 085	6 037	7 685	4 277	5 923	5 927	5 663	4 594	8 184	5 090	8 184	2 309	6 876	6 882	7 041	5 039												
		3 264	4 445	7 707	4 277	6 045	6 115	16 765	3 095	4 443	5 043	—	12 005	8 681	7 005	7 005	5 135												
		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
		5 271	5 253	5 629	4 656	6 649	6 537	7 415	6 597	8 179	8 150	8 690	7 880	8 964	9 023	8 942	7 806												
		9 945	9 899	10 536	8 886	10 649	10 616	10 972	9 874	12 699	12 675	13 140	12 255	12 949	12 887	13 365	11 697												
		5 894	5 700	8 132	5 581	8 790	8 643	9 191	8 725	8 621	8 469	10 464	8 691	9 833	9 702	10 430	7 073												
		5 868	5 844	6 250	5 955	6 369	6 279	7 175	6 735	8 519	8 479	9 210	8 272	9 038	9 166	8 626	7 093												
		6 165	6 110	6 937	5 831	6 375	6 277	7 431	6 738	8 669	8 621	9 619	8 417	9 561	9 588	9 661	9 537												
		3 810	3 772	3 941	3 656	6 329	6 275	6 523	6 201	6 333	6 281	6 767	6 631	8 096	8 008	7 516	5 928												
		3 400	3 372	3 698	3 374	5 062	5 068	5 444	4 727	5 832	5 860	5 755	5 307	6 559	6 777	6 165	5 738												
		3 668	3 583	4 370	3 015	6 020	6 029	5 444	4 727	5 033	5 114	5 002	5 297	4 441	4 212	5 711	4 782												
		2 772	2 817	2 747	2 075	5 021	5 025	5 253	4 998	4 793	4 514	7 007	5 018	5 859	6 111	5 314	4 499												
		3 758	3 668	4 468	3 302	7 191	7 368	6 633	8 146	7 581	7 548	7 082	7 082	8 896	8 201	9 198	8 201												
		7 098	7 010	7 910	7 730	7 372	7 288	7 888	7 627	7 581	7 548	8 357	7 526	9 942	8 866	10 543	8 775												
		7 720	7 627	8 739	2 312	8 252	7 957	10 037	7 723	8 093	8 195	8 236	10 775	9 330	9 371	9 467	7 979												
		7 138	7 065	7 175	5 830	7 968	8 067	7 378	6 277	7 790	7 805	8 105	10 175	9 729	9 611	10 140	7 073												
		3 511	3 445	4 298	1 892	6 278	6 360	6 344	4 851	8 169	8 265	7 105	4 242	7 914	8 169	7 754	7 233												
		6 713	6 519	9 310	2 936	4 958	4 829	6 128	4 732	4 471	4 243	5 414	5 422	6 321	6 198	6 833	5 555												
		4 795	4 884	7 022	2 552	8 495	8 500	8 449	8 792	9 828	9 644	4 644	7 611	11 014	10 599	13 173	8 176												
		4 340	4 195	6 464	2 784	5 110	5 118	5 435	4 732	6 206	6 399	4 589	6 005	9 808	9 823	9 950	8 570												
		4 651	4 272	5 866	2 685	5 499	5 359	5 578	5 057	8 055	8 073	7 468	6 223	10 834	10 922	10 553	10 922												
		7 421	7 272	8 064	4 581	10 215	10 134	5 574	4 743	7 466	7 370	9 636	5 012	8 048	7 997	10 922	9 112												
		6 193	5 904	7 189	13 149	10 215	10 134	5 574	4 743	8 144	8 123	7 971	6 385	12 175	12 061	12 677	11 828												
		4 397	4 336	4 938	3 990	6 251	6 086	6 986	5 686	6 607	8 451	7 100	8 251	7 984	7 907	8 228	7 350												
		—	—	—	—	—	—	—	—	6 531	6 512	—	—	8 145	8 181	8 197	7 052												
		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
		3 578	3 295	4 863	3 964	3 775	3 536	4 564	3 837	4 565	4 287	5 356	4 960	6 571	6 483	6 986	5 554												
		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
		2 950	2 698	5 049	3 529	3 500	3 098	7 377	3 461	7 520	7 738	7 423	7 396	7 957	7 672	9 097	7 838												
		2 896	2 633	5 049	3 529	3 498	3 089	7 440	3 289	7 497	7 747	7 333	7 990	7 325	3 491	4 807	2 904												
		10 531	10 531	—	—	3 600	3 563	4 005	2 838	7 886	7 654	12 005	4 425	11 402	11 316	11 197	11 197												
		3 595	3 312	4 860	3 971	3 778	3 541	4 555	3 838	4 270	3 950	5 173	4 734	5 363	5 047	5 984	4 519												
		3 203	3 041	4 272	3 388	3 999	3 853	4 510	4 003	4 562	4 268	5 085	3 777	5 097	4 776	5 944	5 211												
		5 591	5 310	6 267	6 587	5 050	4 921	5 374	4 632	6 576	6 576	5 560	6 512	6 242	6 494	4 228	4 228												
		4 748	4 320	5 576	5 369	3 241	3 003	4 006	3 906	3 910	3 391	4 902	4 000	5 234	4 669	4 419	4 419												
		3 283	3 087	4 361	3 186	3 701	3 451	4 548	3 696	4 076	3 820	5 677	5 828	5 125	4 923	5 461	4 485												
		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
		3 073	2 982	6 005	2 358	3 543	3 471	3 726	3 129	7 075	7 277	4 512	4 075	4 806	5 080	4 232	4 164												
		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
		5 485	5 491	7 067	5 469	5 700	5 670	6 126	4 724	8 942	8 708	11 567	9 017	10 434	10 806	10 337	9 543												
		5 956	5 617	7 167	8 453	4 883	5 454	2 918	2 586	19 904	19 197	13 042	10 318	12 159	12 197	11 872	11 005												
		4 808	4 215	13 805	1 28	11 221	11 221	4 305	—	7 985	19 900	—	—	12 208	10 698	14 266	15 227												
		5 443	6 011	7 005	1 128	5 245	6 513	4 484	—	—	7 985	—	—	10 338	6 963	5 226	—												
		4 693	4 693	—	—	5 519	7 705	—	—	—	12 399	—	—	11 005	11 149	11 993	—												
		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
		5 714	5 205	7 492	24 005	5 429	5 429	—	—	10 779	10 486	18 005	5 505	13 641	14 429	9 442	14 945												
		—	—	—	—	6 555	6 555	—	—	11 349	6 005	14 021	—	8 065	9 559	12 079	12 079												
		6 723	6 504	6 126	10 289	4 609	4 634	6 505	2 586	10 726	10 693	11 157	14 045	12 300	12 192	12 735	10 884												
		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
		4 508	4 508	6 756	664	3 562	3 448	3 707	3 878	6 141	5 417	11 767	11 023	7 364	7 299	8 344	6 482												
		7 100	6 143	10 928	1 205	7 875	7 645	10 104	9 034	11 912	11 814	12 546	11 005	10 261	10 608	8 061	—												
		3 240	3 225	3 293	1 205	3 323	3 323	2 738	1 314	4 605	4 114	6 005	9 885	5 567	6 108	6 454	—												
		7 940	7 326	18 005	6 275	6 275	6 275	—	—	11 189	11 189	15 035	8 005	9 134	7 274	14 934	11 487												
		3 211	2 931	6 725	1 161	2 080	2 512	1 447	418	11 962	1 700	15 035	8 005	5 147	5 686	4 013	—												
		7 208	7 208	10 098	405	1 003	1 549	19 005	—	3 105	3 105	—	—	11 907	12 497	10 538	—												
		6 155	3 952	10 098	405	1 003	1 549	19 005	—	3 105	3 105	—	—	11 907	12 497	10 538	—												
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¹¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Elective occupations	4 761	4 761	—	—	7 815	7 815	—	—	6 791	6 791	—	—	11 459	10 227	19 461	—
Precision production occupations	7 165	5 627	7 140	5 379	6 284	6 162	9 071	5 138	9 103	8 988	10 726	7 142	10 605	11 342	10 300	9 732
Supervisors, production occupations	7 365	7 078	9 580	7 907	8 136	8 060	9 167	7 826	10 966	10 922	12 450	8 771	12 861	13 102	12 380	9 840
Precision manufacturing occupations	3 858	6 219	505	—	4 925	5 076	1 085	—	6 776	6 280	15 005	6 335	12 207	11 914	13 242	14 234
Food and die makers	—	—	—	—	3 105	3 105	—	—	—	—	—	—	18 214	18 214	—	—
Mechanics	4 647	8 246	—	—	6 501	6 501	—	—	7 827	7 827	—	—	9 230	9 193	9 007	7 758
Sheet metal workers	3 985	—	—	—	—	—	—	—	—	—	—	—	14 605	13 929	17 353	16 393
Other precision metal workers	2 407	3 517	505	—	4 746	4 954	1 085	—	6 045	4 944	15 005	6 335	10 593	9 612	14 971	—
Precision textile, apparel, and furnishings machine workers	3 459	3 578	1 697	5 019	3 256	3 125	—	2 334	5 935	4 758	13 918	7 005	6 234	7 526	6 260	6 868
Precision food production occupations	4 898	4 811	5 606	4 194	2 697	2 145	3 657	1 822	1 852	1 852	—	—	5 733	5 875	5 431	5 250
Precision inspectors, testers, and related workers	11 200	13 395	9 005	—	6 625	7 849	657	—	6 668	5 833	19 735	—	7 180	7 100	7 494	9 985
Plant and system operators	9 911	8 827	18 005	—	11 400	11 434	11 110	—	11 836	12 115	1 105	—	10 031	11 157	9 445	6 805
Other precision production occupations	6 023	6 242	4 482	1 041	3 087	2 484	2 416	1 805	6 590	6 448	1 818	3 948	9 582	10 400	6 765	8 229
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	4 063	4 007	4 690	3 996	3 335	3 117	4 145	3 944	6 552	6 418	7 260	6 962	7 184	7 335	7 371	6 528
Machine operators and leaders, except precision	4 021	3 901	4 490	4 450	3 257	3 048	4 294	4 964	7 038	6 828	8 250	7 924	8 204	8 349	8 985	7 500
Metallurgical and plastic working machine operators	4 349	4 271	4 962	4 835	4 080	3 859	5 074	—	7 516	7 166	8 963	8 885	8 429	8 610	9 364	7 408
Fabricating machine operators, n.e.c.	5 065	4 412	2 128	—	4 214	4 214	—	—	9 222	8 922	9 971	7 345	8 948	9 294	7 466	9 752
Textile sewing machine operators	3 005	3 005	—	—	965	965	—	—	6 005	6 005	—	—	5 879	6 768	325	—
Metal and plastic processing and woodworking machine operators	6 093	6 037	6 487	—	3 506	3 517	3 499	—	5 358	4 747	8 005	—	10 418	9 487	13 444	10 357
Printing machine operators	5 849	5 843	6 977	7 323	3 016	3 000	5 622	8 697	9 507	9 202	9 923	16 391	10 446	10 123	12 278	8 567
Textile machine operators	2 581	2 581	—	—	4 069	4 069	—	—	6 005	6 005	—	—	2 239	7 848	7 005	—
Textile sewing machine operators	3 645	3 619	5 005	—	4 305	4 235	4 899	4 231	8 763	8 177	9 297	—	8 071	7 941	8 072	13 329
Laundry and dry cleaning machine operators	4 120	3 834	5 538	6 762	4 191	3 875	5 207	4 280	8 906	7 913	11 428	—	8 325	7 665	9 101	3 621
Packaging and filling machine operators	2 424	2 542	1 520	4 086	1 500	1 500	—	—	3 943	3 943	—	—	3 727	3 392	5 654	5 167
Furnace, kiln, and oven operators, except food	962	962	—	—	5 205	5 205	—	—	6 341	6 293	—	—	9 488	9 004	18 005	18 005
Other specific machine operators	3 181	3 248	3 651	3 073	3 641	3 289	4 696	8 122	6 341	6 293	—	—	8 732	8 588	10 237	7 436
Miscellaneous and not specified machine operators	3 961	4 030	3 769	4 225	3 399	3 055	4 861	5 127	7 201	6 689	8 933	7 613	7 952	7 959	8 053	6 745
Fabricators, assemblers, and hand working occupations																
Welders and cutters	2 692	2 416	4 438	3 200	1 730	1 677	2 188	3 307	5 669	5 479	7 316	6 370	6 653	6 786	6 953	10 104
Solders and brazers	4 370	5 028	3 383	—	71	—	129	—	3 396	3 396	—	—	8 611	10 141	7 556	10 385
Assemblers	6 005	—	6 005	4 193	3 309	4 747	2 505	3 710	5 199	5 941	—	—	9 159	10 170	10 490	155
Hand working occupations	2 610	2 331	—	—	1 711	1 615	2 615	—	5 763	5 502	7 438	6 370	6 390	6 132	7 333	8 612
Production inspectors, testers, samplers, and weighers	2 217	2 217	—	—	2 024	2 404	49	—	5 456	5 553	4 005	—	6 284	7 321	2 079	4 750
Graders and sorters, except agricultural	2 277	2 361	905	3 479	3 926	3 643	4 867	3 762	7 908	9 086	4 982	4 070	8 884	8 884	9 284	5 244
Other production inspectors, testers, samplers, and weighers	1 775	1 824	905	2 113	3 098	3 093	3 328	1 334	2 936	3 832	—	205	6 056	6 684	4 050	2 471
Transportation and material moving occupations																
Transportation occupations	4 528	5 144	—	4 596	6 419	5 282	11 373	14 777	9 536	10 709	4 982	7 505	10 250	10 054	10 865	7 669
Material moving occupations	4 144	4 094	4 566	3 988	4 111	3 908	4 606	4 404	6 639	6 374	8 658	5 143	5 579	5 488	5 729	5 647
Trucking occupations	4 134	4 084	4 559	3 988	4 104	3 902	4 611	4 404	6 676	6 374	8 658	5 005	5 579	5 488	5 729	5 647
Motor vehicle operators	4 134	4 084	4 559	3 988	4 104	3 902	4 611	4 404	6 676	6 374	8 658	5 005	5 579	5 488	5 729	5 647
Truck drivers	5 594	5 071	4 397	12 729	3 988	3 915	4 611	4 643	6 076	5 822	12 215	5 005	5 223	5 066	5 454	5 887
Other motor vehicle operators	4 109	4 041	4 109	3 708	4 031	3 978	4 716	4 391	6 868	6 136	12 215	5 005	5 446	5 314	5 778	4 795
Rail and water transportation occupations	4 093	4 041	4 422	3 708	4 031	3 978	4 716	4 391	6 868	6 136	12 215	5 005	5 446	5 314	5 778	4 795
Material moving equipment operators	5 205	5 205	—	—	4 56	3 916	4 970	4 970	5 347	5 040	6 395	5 005	5 920	5 279	5 892	6 625
Supervisors, material moving equipment operators	7 401	7 786	6 125	—	8 411	8 411	—	—	9 178	9 178	—	—	5 954	6 378	2 201	2 415
Crane, hoist, and winch operators	11 890	11 890	—	—	4 472	4 164	4 423	245	9 217	9 217	—	—	14 813	14 813	8 721	4 626
Excavating, grading, and dozer machine operators	7 905	7 905	—	—	505	505	—	—	16 235	16 235	—	—	6 103	7 213	2 775	—
Other material moving equipment operators	5 781	5 708	6 125	—	4 432	4 038	4 423	245	7 808	7 808	—	—	6 056	7 213	9 824	4 626
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers	3 511	3 290	5 002	3 218	2 715	2 561	3 241	2 672	5 051	5 044	5 268	815	6 944	7 288	6 661	5 990
n.e.c.	8 020	7 425	12 405	—	6 656	7 218	5 214	—	8 645	9 325	3 885	—	13 599	15 202	10 919	27 935
Helpers, craft and production	3 016	2 485	4 008	2 650	2 726	2 312	3 359	505	5 517	5 236	7 796	1 005	8 519	8 896	7 438	5 743
Construction laborers	2 971	2 685	4 008	—	8 341	6 366	6 965	—	3 088	5 072	65	—	6 606	6 705	5 983	8 503
Freight, stock, and material handlers	2 592	2 689	2 227	1 855	3 684	3 638	2 522	805	8 938	9 148	4 732	—	5 576	7 830	4 983	4 064
Garage and service station attendants, and equipment cleaners	2 518	1 689	6 350	555	1 831	1 358	4 052	—	9 712	9 899	8 855	—	5 704	5 788	4 622	6 586
Hand packers and packagers	4 170	4 453	2 330	3 854	2 086	2 431	1 422	2 086	2 609	2 737	—	155	9 078	8 955	9 193	9 388
Laborers, except construction	3 652	3 349	5 346	3 911	2 683	2 439	3 422	2 966	4 607	4 467	5 106	913	6 230	6 511	6 232	4 908

¹Persons of Spanish origin may be of any race.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Experienced unemployed 16 years and over

Occupation	3 748 822		2 649 808		149 035		54 434		57 005		4 641		879 418		45 886		29 710		2 929		69 872		1 643		979 556		656 510		76 682		77 590	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Managerial and professional specialty occupations	260 564	241 446	3 741	1 389	2 018	295	18 052	2 840	1 033	215	3 467	186	40 195	18 371	2 526	1 226	2 526	1 226	2 526	1 226	2 526	1 226	2 526	1 226	2 526	1 226	2 526	1 226	2 526	1 226	2 526	
Executive, administrative, and managerial occupations	146 357	98 610	1 152	437	1 043	163	14 547	2 305	752	117	3 308	142	25 593	9 628	1 978	836	1 978	836	1 978	836	1 978	836	1 978	836	1 978	836	1 978	836	1 978	836	1 978	
Officials and administrators, public administration	4 414	2 703	9	16	27	5	116	39	11	3	7	—	634	386	76	22	634	386	76	22	634	386	76	22	634	386	76	22	634	386	76	22
Financial managers	3 786	2 551	10	6	23	5	229	33	—	—	—	—	229	33	—	—	229	33	—	—	229	33	—	—	229	33	—	—	229	33	—	—
Managers, marketing, advertising, and public relations	10 321	4 190	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Administrators, education and related fields	2 081	2 868	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Managers, medicine and health	1 054	1 350	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Managers, education and health	7 286	6 034	73	12	127	12	265	95	26	—	36	6	1 112	483	61	43	1 112	483	61	43	1 112	483	61	43	1 112	483	61	43	1 112	483	61	43
Other specified managers	84 799	50 493	787	327	495	89	11 278	1 483	190	37	3 233	105	14 816	4 224	1 222	386	14 816	4 224	1 222	386	14 816	4 224	1 222	386	14 816	4 224	1 222	386	14 816	4 224	1 222	386
Managers and administrators, n.e.c.	75 427	47 499	684	298	444	89	8 001	1 334	190	37	3 233	105	13 883	4 020	1 144	373	13 883	4 020	1 144	373	13 883	4 020	1 144	373	13 883	4 020	1 144	373	13 883	4 020	1 144	373
Salaries	9 372	2 994	103	29	51	—	3 277	149	—	—	—	—	3 277	149	—	—	3 277	149	—	—	3 277	149	—	—	3 277	149	—	—	3 277	149	—	—
Self-employed	32 616	28 421	245	76	371	57	2 495	724	420	66	32	31	5 689	3 747	415	340	5 689	3 747	415	340	5 689	3 747	415	340	5 689	3 747	415	340	5 689	3 747	415	340
Management related occupations	9 603	9 927	34	21	111	31	411	379	11	20	6	23	2 374	1 671	155	152	2 374	1 671	155	152	2 374	1 671	155	152	2 374	1 671	155	152	2 374	1 671	155	152
Accountants and auditors	5 843	6 610	138	10	40	15	292	66	23	19	18	—	930	813	90	69	930	813	90	69	930	813	90	69	930	813	90	69	930	813	90	69
Personnel, training, and labor relations specialists	5 778	4 155	38	15	96	11	280	118	8	5	—	—	1 811	866	144	54	1 811	866	144	54	1 811	866	144	54	1 811	866	144	54	1 811	866	144	54
Buyers and purchasing agents	5 008	1 852	29	22	94	—	1 363	145	362	22	6	8	127	170	10	53	127	170	10	53	127	170	10	53	127	170	10	53	127	170	10	53
Inspection and compliance officers	6 384	5 877	6	8	30	—	149	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other management related occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Professional specialty occupations	114 207	142 836	2 589	952	975	132	3 505	455	281	98	159	44	14 602	8 743	548	390	14 602	8 743	548	390	14 602	8 743	548	390	14 602	8 743	548	390	14 602	8 743	548	390
Engineers, architects, and surveyors	21 165	2 218	1 264	158	511	32	2 903	112	239	46	72	—	7 597	942	198	60	7 597	942	198	60	7 597	942	198	60	7 597	942	198	60	7 597	942	198	60
Architects	2 281	1 651	1 080	97	446	30	196	6	—	—	22	—	42	17	—	—	42	17	—	—	42	17	—	—	42	17	—	—	42	17	—	—
Engineers	17 227	1 651	121	16	29	—	2 419	92	191	44	50	—	7 535	919	198	60	7 535	919	198	60	7 535	919	198	60	7 535	919	198	60	7 535	919	198	60
Chemical engineers	3 356	208	61	11	12	—	1 730	69	158	33	33	—	1 511	22	40	—	1 511	22	40	—	1 511	22	40	—	1 511	22	40	—	1 511	22	40	—
Electrical and electronic engineers	2 897	223	2	—	2	—	1 601	7	11	—	6	—	1 431	96	2	5	1 431	96	2	5	1 431	96	2	5	1 431	96	2	5	1 431	96	2	5
Industrial engineers	2 734	636	11	—	16	—	178	—	3	—	5	—	1 970	468	50	48	1 970	468	50	48	1 970	468	50	48	1 970	468	50	48	1 970	468	50	48
Mechanical engineers	2 558	98	6	—	2	—	200	—	—	—	—	—	1 563	73	61	—	1 563	73	61	—	1 563	73	61	—	1 563	73	61	—	1 563	73	61	—
Other engineers	5 682	486	41	5	387	30	151	16	19	11	6	—	2 420	260	45	7	2 420	260	45	7	2 420	260	45	7	2 420	260	45	7	2 420	260	45	7
Surveyors and mapping scientists	1 657	234	63	45	65	2	288	14	48	2	—	—	20	6	—	—	20	6	—	—	20	6	—	—	20	6	—	—	20	6	—	—
Computer systems analysts and scientists	1 316	651	—	—	—	—	48	12	7	—	5	—	232	165	8	14	232	165	8	14	232	165	8	14	232	165	8	14	232	165	8	14
Operations and systems researchers and analysts	591	365	—	—	—	—	20	—	—	—	—	—	211	92	20	—	211	92	20	—	211	92	20	—	211	92	20	—	211	92	20	—
Mathematical scientists	465	564	—	—	—	—	—	—	—	—	—	—	26	74	—	—	26	74	—	—	26	74	—	—	26	74	—	—	26	74	—	—
Natural scientists	4 601	2 299	707	266	343	66	48	6	11	6	—	—	946	477	140	26	946	477	140	26	946	477	140	26	946	477	140	26	946	477	140	26
Chemists, except biochemists	1 186	595	—	—	37	17	11	—	—	—	—	—	717	319	78	113	717	319	78	113	717	319	78	113	717	319	78	113	717	319	78	113
Other natural scientists	3 415	1 704	707	266	306	49	37	6	11	6	—	—	229	158	62	42	229	158	62	42	229	158	62	42	229	158	62	42	229	158	62	42
Health diagnosing occupations	1 945	1 165	108	85	7	—	8	—	—	—	—	—	33	7	13	35	33	7	13	35	33	7	13	35	33	7	13	35	33	7	13	
Health assessment and treating occupations	3 785	23 355	27	27	7	—	8	—	—	—	—	—	8	—	—	—	8	—	—	—	8	—	—	—	8	—	—	—	8	—	—	—
Registered nurses	822	17 676	18	—	—	—	8	—	—	—	—	—	8	—	—	—	8	—	—	—	8	—	—	—	8	—	—	—	8	—	—	—
Other health assessment and treating occupations	2 963	5 679	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Teachers, except postsecondary	15 675	48 371	31	34	13	—	7	5	—	—	—	—	25	9	13	2	25	9	13	2	25	9	13	2	25	9	13	2	25	9	13	2
Social scientists and urban planners	2 683	2 678	8	28	12	13	19	10	11	5	—	—	383	290	51	26	383	290	51	26	383	290	51	26	383	290	51	26	383	290	51	26
Social and recreation workers	7 268	13 344	18	22	—	—	7	—	—	—	—	—	27	19	—	—	27	19	—	—	27	19	—	—	27	19	—	—	27	19	—	—
Lawyers and judges	3 148	3 725	—	—	20	2	—	—	—	—	—	—	68	7	—	—	68	7	—	—	68	7	—	—	68	7	—	—	68	7	—	—
Writers, artists, entertainers, and athletes	40 867	33 278	414	317	67	5	439	228	13	19	68	39	4 722	5 988	112	108	4 722	5 988	112	108	4 722	5 988	112	108	4 722	5 988	112	108	4 722	5 988	112	108
Other professional specialty occupations	10 698	12 823	12	15	—	7	6	30	—	7	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Technical, sales, and administrative support occupations	379 688	910 384	2 172	4 792	1 825	2 692	9 639	21 526	631	912	291	272	70 640	96 311	4 176	8 790	70 640	96 311	4 176	8 790	70 640	96 311	4 176	8 790	70 640	96 311	4 176	8 790	70 640	96 311	4 176	8 790
Technicians and related support occupations	42 469	38 192	983	555	798	188	3 293	705	341	152	107	—	11 442	5 559	450	1 338	11 442	5 559	450	1 338	11 442	5 559	450	1 338	11 442	5 559	450	1 338	11 442	5 559	450	1 338
Health technicians and technicians	4 058	18 820	51	138	3	—	4	—	—	—	—	—	21	47	—	—	21	47	—	—	21	47	—	—	21	47	—	—	21	47	—	—
Unlicensed practical nurses	483	9 783	—	—	—	—	—	—	—	—	—	—	—	—	—	—</																

¹Includes experienced unemployed persons not classified by industry.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries ¹		Agriculture, forestry, and fisheries		Mining		Construction		Manufacturing	
	Total		Total		Government workers		Self-employed workers		Total	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.										
Sales occupations	173 310	323 842	407	776	107	24	2 167	1 198	16 410	8 916
Services and proprietors, sales occupations	23 388	16 363	36	11	7	—	170	36	877	287
Self-employed	20 589	14 262	31	5	—	—	144	36	777	284
Sales representatives, finance and business services	23 545	20 101	5	6	—	—	26	—	16	3
Sales representatives, commodities, except retail	23 435	20 101	167	102	13	—	1 694	390	1 640	1 380
Sales workers, retail and personal services	100 322	276 431	135	382	76	—	49	—	8 021	3 616
Cashiers	22 086	137 436	9	251	11	24	247	772	5 823	3 486
Other sales occupations, retail and personal services	78 246	138 995	31	223	9	24	27	112	240	819
Sales related occupations	350	1 589	9	56	—	—	220	660	5 583	2 667
Administrative support occupations, including clerical	163 909	548 350	782	3 461	920	2 480	4 179	19 623	42 788	81 836
Supervisors, administrative support occupations	10 584	7 879	72	33	17	43	357	103	2 636	1 388
Computer equipment operators	4 209	7 897	17	43	44	43	37	103	1 046	855
Secretaries, stenographers, and typists	3 828	166 117	17	1 043	33	977	116	7 937	23 701	51 151
Stenographers and typists	1 915	126 725	12	933	11	—	65	687	89	290
Receptionists	1 172	30 490	5	390	—	82	21	878	158	4 961
Other information clerks	8 062	20 426	6	52	15	—	38	249	2	832
File clerks	4 137	19 553	—	28	37	38	85	224	401	855
Other records processing occupations, except financial	7 184	21 664	32	47	15	45	125	100	1 351	3 274
Bookkeepers, accounting, and auditing clerks	6 973	60 610	57	611	36	430	387	4 875	1 138	9 765
Payroll and timekeeping clerks	1 397	5 140	5	65	16	73	370	696	475	1 718
Other financial records processing occupations	1 472	6 102	5	15	11	12	66	140	250	1 689
Telephone operators	1 326	12 646	12	15	—	10	5	90	63	116
Mail and message distributing occupations	17 551	10 965	7	51	30	42	214	42	2 044	1 321
Production coordinators and expeditors	7 103	7 404	72	18	22	34	392	157	4 307	3 121
Traffic, shipping, and receiving clerks	28 983	7 459	137	36	48	—	201	54	12 977	3 652
Stock and inventory clerks	25 441	13 532	92	53	32	—	619	130	7 710	3 775
Other material recording, scheduling, and distributing clerks	6 976	7 128	101	24	142	223	116	264	1 561	1 606
Adjusters and investigators	5 360	10 471	23	67	16	37	119	89	573	630
Date-entry clerks	1 356	15 365	8	16	20	293	665	2 472	3 311	3 315
Other administrative support occupations	25 795	110 256	133	625	143	—	—	—	3 932	12 494
Service occupations	407 800	568 849	3 563	1 468	1 305	221	4 482	1 384	31 111	9 406
Private household occupations	3 028	34 565	2 106	—	478	51	837	80	3 885	488
Protective service occupations	53 515	13 071	539	26	445	51	780	80	3 609	434
Guards	39 532	10 223	204	26	33	—	57	—	276	54
Other protective service occupations	13 983	2 848	1 902	513	33	—	3 645	1 304	8 918	5 215
Service occupations, except protective and household	351 257	521 213	1 457	929	827	170	182	610	27 226	8 918
Food preparation and service occupation	164 956	280 212	255	238	172	44	132	20	1 463	967
Health service occupations	11 784	89 625	22	99	18	—	7	—	45	205
Cleaning and building service occupations, except household	148 659	86 042	974	484	611	124	3 321	1 074	25 388	6 374
Personal service occupations	25 858	65 334	206	108	26	2	185	83	330	497
Farming, forestry, and fishing occupations	174 024	46 982	121 770	41 608	61	17	1 803	86	20 648	596
Precision production, craft, and repair occupations	882 341	78 011	2 952	409	25 507	628	501 018	9 588	158 766	44 950
Mechanics and repairers	175 360	8 557	1 041	26	34	50	17 145	362	41 215	4 319
Supervisors, mechanics and repairers	3 356	1 61	36	—	—	—	314	16	2 295	371
Automobile mechanics, including body	69 057	1 294	153	9	933	15	1 307	8	6 243	371
Industrial machinery repairers	18 607	963	156	1	—	—	898	10	12 766	781
Electronic repairers, communications and industrial equipment	6 012	534	—	—	31	—	231	22	—	251
Heating, air conditioning, and refrigeration mechanics	7 928	1 41	6	—	—	—	3 364	48	723	29
Other mechanics and repairers	70 400	5 464	690	16	1 920	30	11 031	258	20 150	2 874
Construction trades	552 276	14 831	1 235	117	2 142	52	474 215	9 015	29 234	3 406
Supervisors, construction occupations	48 519	7 767	110	—	36	—	46 156	686	548	42
Carpenters	200 547	3 785	542	37	332	8	178 969	2 529	8 376	786
Electricians	35 449	1 293	57	—	569	—	23 637	463	6 015	652
Painters, construction and maintenance	55 510	3 978	91	23	2	2	44 106	168	3 336	263
Plumbers, pipefitters, and steamfitters	39 905	901	151	256	8	—	29 973	451	4 802	65
Other construction trades	172 346	4 107	284	57	871	14	151 374	2 688	6 157	817

¹Includes experienced unemployed persons not classified by industry.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries ¹		Agriculture, forestry, and fisheries		Mining		Total		Construction		Self-employed workers		Total		Manufacturing	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.																
Extraction occupations	20 330	562	89	18	923	475	749	19	6	212	20	5	285	39	9	—
Supervisors, production occupations	134 375	54 061	587	248	1 250	51	8 909	192	5	186	186	—	88 032	37 186	9 723	6 538
Precision metalworking occupations	37 584	12 320	319	95	317	3	902	22	—	34	—	—	26 579	8 796	2 213	1 398
Tool and die makers	46 248	6 526	73	25	307	7	6 632	73	—	106	—	—	34 368	5 603	350	104
Machinists	6 133	207	7	16	—	—	50	—	—	—	—	—	5 876	200	—	25
Other precision metal workers	20 294	2 610	66	—	207	5	301	—	—	—	—	—	17 560	2 408	316	79
Precision textile, apparel, and furnishings machine workers	9 279	538	—	9	11	—	4 223	31	39	78	—	—	4 229	486	—	—
Precision food production occupations	10 542	3 171	—	20	89	2	2 058	42	45	28	—	—	6 603	2 509	21	—
Precision inspectors, testers, and related workers	7 476	10 844	2	20	10	13	72	11	6	8	—	—	4 132	4 547	25	54
Plant and system operators	17 814	8 821	112	95	3	—	66	—	—	6	—	—	7 220	5 025	6 836	4 889
Other precision production occupations	2 961	2 411	15	—	17	—	97	12	20	17	—	—	1 750	2 106	28	54
	6 035	411	64	13	546	28	789	25	57	25	—	—	1 836	1 61	252	32
	16 237	12 728	2	—	50	—	351	49	3	25	—	—	12 147	10 948	19	7
Operators, fabricators, and laborers	1 516 446	612 186	14 837	4 768	26 289	788	344 424	10 462	17 797	994	3 974	64	658 196	486 876	51 273	58 590
Machine operators, assemblers, and inspectors	540 804	455 777	2 788	1 452	3 169	141	23 557	798	773	19	451	12	453 989	489 137	18 542	35 082
Machine operators and tenders, except precision	309 885	274 155	2 288	904	1 307	71	8 304	333	275	2	214	5	243 326	243 246	14 611	19 869
Metalworking and plastic working machine operators	57 757	20 140	57	13	206	13	730	19	48	—	9	—	54 853	19 601	122	36
Fabricating machine operators, n.e.c.	1 955	1 457	23	8	—	—	70	4	—	—	—	—	1 750	1 399	6	—
Metal and plastic processing and woodworking machine operators	32 637	11 713	331	61	102	10	512	21	11	2	20	—	30 232	11 137	153	98
Printing machine operators	12 506	7 416	2	—	4	—	59	13	6	—	6	—	11 110	6 317	42	45
Textile sewing machine operators	9 216	17 979	44	12	20	8	72	11	—	—	2	—	8 907	17 577	44	54
Laundry and dry cleaning machine operators	5 252	80 140	—	16	2	—	122	—	—	—	—	—	4 782	78 223	41	87
Packaging and filling machine operators	5 137	8 682	—	8	—	—	2	—	—	—	—	—	1 880	224	15	2
Food, kind, and oven operators, except food	6 405	13 136	54	79	9	—	55	16	—	—	—	—	5 833	12 288	4 257	9 618
Other specified machine operators	8 962	762	73	7	121	—	167	5	9	—	—	—	7 323	12 288	171	29
Miscellaneous and not specified machine operators	55 845	37 322	675	331	843	40	2 155	77	42	—	56	—	40 977	27 671	3 543	2 525
	113 713	75 406	1 029	369	—	—	4 360	166	159	—	121	—	96 399	68 156	6 397	7 373
Fabricators, assemblers, and hand working occupations	202 584	130 089	344	222	1 578	40	15 020	407	400	12	237	7	167 472	122 484	2 182	3 832
Welders and cutters	71 228	7 201	238	—	1 478	15	13 257	185	322	3	199	—	45 233	382	324	24
Solders and brazers	844	2 572	—	—	11	—	49	13	—	—	—	—	731	2 473	—	—
Assemblers	124 963	115 429	66	132	73	25	1 499	164	54	—	34	—	117 680	110 165	1 148	2 849
Hand working occupations	5 549	4 887	40	90	16	—	215	45	24	9	4	—	3 828	3 664	710	959
Production inspectors, testers, samplers, and weighers	28 835	51 533	156	326	284	30	333	58	48	5	—	—	24 171	43 205	1 549	11 381
Graders and sorters, except agricultural	5 696	16 551	71	113	47	—	58	—	6	—	—	—	3 632	10 325	919	7 755
Other production inspectors, testers, samplers, and weighers	23 139	34 982	85	213	237	30	275	58	42	5	—	—	20 539	32 880	630	3 626
Transportation and material moving occupations	403 626	27 284	5 973	396	15 409	233	107 869	2 026	5 087	104	3 174	18	82 903	7 806	11 593	1 010
Transportation occupations	260 698	18 741	4 110	267	6 319	94	40 488	958	2 787	60	760	15	34 779	1 469	5 924	158
Motor vehicle operators	243 340	18 231	4 038	257	5 651	79	39 644	956	2 624	58	760	12	34 016	1 438	5 863	146
Truck drivers	213 759	9 000	3 844	251	5 590	77	39 214	929	2 566	58	758	15	31 011	1 098	4 549	112
Driver-sales workers	6 407	1 028	38	6	48	—	48	—	—	—	—	—	1 458	133	178	31
Other motor vehicle operators	23 194	8 203	156	10	61	2	402	27	58	—	2	—	1 547	207	136	61
Rail and water transportation occupations	142 928	510	1 863	129	9 098	15	67 824	2	163	2	—	—	763	51	12	3
Material moving equipment operators	13 579	409	59	—	22	—	67 381	1 048	2 300	44	2 414	3	48 124	6 317	5 669	852
Supervisors, material moving equipment operators	13 579	409	59	—	22	—	67 381	1 048	2 300	44	2 414	3	48 124	6 317	5 669	852
Crane, hoist and winch operators	23 705	436	348	8	1 944	31	4 491	16	3	—	46	—	250	21	14	—
Excavating, grading, and dozer machine operators	104 479	7 637	1 456	121	2 873	17	18 245	311	703	12	296	2	5 769	348	68	18
Other material moving equipment operators	572 016	129 125	6 076	2 920	7 711	414	44 375	734	1 516	32	1 030	1	41 192	5 905	5 550	825
Handlers, equipment cleaners, helpers, and laborers	310	57	15	9	—	—	62	—	6	—	349	34	121 304	69 933	21 138	22 498
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	45 030	3 892	114	11	3 184	209	26 224	858	418	—	5	—	42	—	8	—
Helpers, craft and production	192 545	7 267	431	81	559	10	184 494	6 683	11 048	35	342	34	7 748	1 615	720	236
Freight, stock, and material handlers	114 279	20 507	1 373	209	1 103	56	1 459	6 683	11 048	826	2	—	1 970	7 244	5 084	1 156
Garage and service station occupations, and equipment cleaners	53 360	6 185	121	32	27	21	575	13	35	6	—	—	3 385	1 386	896	301
Hand packers and packagers	24 201	55 328	765	1 707	69	—	84	42	2	—	—	—	15 909	37 670	4 922	15 479
Laborers, except construction	142 291	35 889	3 257	871	2 769	118	—	—	—	—	—	—	64 169	21 806	9 454	5 292
Experienced unemployed not classified by occupation	127 959	211 950	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Includes experienced unemployed persons not classified by industry.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States																	
Manufacturing—Con.																	
Textile mill products		Apparel and other finished textile products		Paper and allied products		Printing, publishing, and allied industries		Chemicals and allied products		Rubber and miscellaneous plastics products		Other nondurable goods		Lumber and wood products, except furniture			
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over																	
26 579	36 615	22 397	101 618	20 929	12 149	38 885	36 564	29 623	22 545	34 064	25 845	19 760	22 782	88 385	15 483		
1 031	611	1 638	1 434	653	283	5 210	5 142	2 318	1 027	1 194	364	794	339	1 379	311		
783	328	1 395	695	457	192	2 304	1 323	1 428	530	915	215	591	234	1 227	238		
22	17	41	24	7	7	13	73	71	39	17	20	21	22	28	9		
61	17	148	32	65	10	706	319	241	53	103	12	53	22	93			
—	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—		
13	14	100	30	6	—	—	20	74	18	—	—	—	—	—	—		
519	155	990	421	246	69	1 302	694	732	189	561	108	50	—	55	12		
519	155	904	372	240	49	1 156	640	708	183	551	103	345	100	824	102		
—	—	86	49	6	20	146	54	24	6	6	5	—	—	336	93		
Management related occupations																	
168	142	116	188	133	106	255	217	303	231	192	60	122	112	227	115		
73	64	63	109	49	71	126	96	181	85	101	42	79	101	42	42		
23	49	50	50	59	27	36	50	27	57	32	6	16	7	22	21		
39	12	50	16	25	8	41	30	72	42	46	12	21	26	136	31		
2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2		
33	15	3	13	—	—	52	41	35	19	13	—	6	—	3	13		
Other management related occupations																	
Professional specialty occupations																	
248	283	243	739	196	91	2 906	3 819	890	497	279	149	203	105	152	73		
101	19	74	29	106	21	92	20	302	100	194	20	119	21	78	15		
—	—	—	—	—	—	—	—	16	—	—	—	—	—	—	—		
101	19	74	29	99	21	92	15	286	100	194	20	119	21	78	15		
—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—		
—	—	—	—	—	—	6	—	28	—	—	—	8	—	19	—		
75	8	68	21	43	7	22	15	33	9	70	13	11	3	17	13		
10	8	6	8	7	14	13	13	33	33	19	7	29	8	8	2		
16	11	—	—	49	—	51	—	191	91	105	7	71	12	26	—		
Other engineers																	
Surveyors and mapping scientists																	
6	2	—	—	—	7	18	19	10	6	—	—	—	—	—	—		
Computer systems analysts and scientists																	
Operations and systems researchers and analysts																	
Mathematical scientists																	
25	—	—	5	26	—	—	11	378	172	35	16	15	17	26	2		
17	—	—	5	13	—	—	—	343	120	32	16	11	10	6	—		
8	—	—	—	13	—	—	11	35	52	3	—	4	7	20	2		
Chemists, except biochemists																	
Other natural scientists																	
Health diagnosing occupations																	
Health assessment and treating occupations																	
—	12	—	8	—	—	—	6	1	36	—	20	—	—	—	—		
—	12	—	8	—	—	—	6	—	32	—	20	—	—	—	—		
Registered nurses																	
Other health assessment and treating occupations																	
35	33	—	18	—	—	5	20	8	12	3	6	—	9	—	—		
5	—	13	6	8	11	25	71	21	48	—	—	6	5	6	4		
7	—	—	—	—	—	11	9	—	—	—	—	—	—	—	—		
Lawyers and judges																	
62	217	156	673	56	42	2 737	3 624	130	100	46	56	16	42	26	50		
7	—	—	—	—	—	10	22	—	2	—	12	—	11	12	—		
Other professional specialty occupations																	
Technical, sales, and administrative support occupations																	
2 046	3 285	3 167	6 720	1 343	2 180	11 631	15 585	3 616	5 335	2 362	2 506	1 795	2 391	1 512	2 036		
198	184	45	123	215	95	375	237	1 012	700	395	181	296	79	147	80		
—	—	5	7	—	7	8	—	30	39	3	—	—	—	2	—		
—	—	5	7	—	—	8	—	5	5	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—					

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing—Con.															
Textile mill products		Apparel and other finished textile products		Paper and allied products		Printing, publishing, and allied industries		Chemicals and allied products		Rubber and miscellaneous plastics products		Other nondurable goods		Lumber and wood products, except furniture	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over—Con.															
Technical, sales, and administrative support occupations—Con.															
Sales occupations															
Supervisors and proprietors, sales occupations															
Sales representatives, finance and business services															
Sales representatives, commodities, except retail															
Sales workers, retail and personal services															
Cashiers															
Other sales occupations, retail and personal services															
Sales related occupations															
Administrative support occupations, including clerical															
Supervisors, administrative support occupations															
Computer equipment operators															
Secretaries, stenographers, and typists															
Secretaries															
Stenographers and typists															
Receptionists															
Other information clerks															
File clerks															
Other records processing occupations, except financial															
Bookkeepers, accounting, and auditing clerks															
Payroll and timekeeping clerks															
Other financial records processing occupations															
Telephone operators															
Mail and message distributing occupations															
Production coordinators and expeditors															
Traffic, shipping, and receiving clerks															
Stock and inventory clerks															
Other material recording, scheduling, and distributing clerks															
Adjusters and inspectors															
Data-entry keyers															
Other administrative support occupations															
Service occupations															
Private household occupations															
Protective service occupations															
Guards															
Other protective service occupations															
Service occupations, except protective and household															
Food preparation and service occupations															
Health service occupations															
Cleaning and building service occupations, except household															
Personal service occupations															
Farming, forestry, and fishing occupations															
Precision production, craft, and repair occupations															
Mechanics and repairers															
Supervisors, mechanics and repairers															
Automobile mechanics, including body															
Industrial machinery repairers															
Electronic repairers, communications and industrial equipment															
Heating, air conditioning, and refrigeration mechanics															
Other mechanics and repairers															
Construction trades															
Supervisors, construction occupations															
Carpenters															
Electricians															
Painters, construction and maintenance															
Plumbers, pipefitters, and steamfitters															
Other construction trades															

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Textile mill products		Apparel and other finished textile products		Paper and allied products		Printing, publishing, and allied industries		Chemicals and allied products		Rubber and miscellaneous plastics products		Other nondurable goods		Lumber and wood products, except furniture	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States															
Experienced unemployed 16 years and over—Con.															
18	850	8	7	6	8	1 910	2 304	30	5	9	2 265	22	2	22	2
1 536	504	3 370	4 918	1 063	1 063	886	416	1 850	441	2 265	739	2 141	1 121	3 580	604
1 092	249	1 027	2 185	538	92	219	98	216	247	1 336	267	732	292	1 414	131
124	124	180	210	376	83	13	7	389	80	738	257	438	30	656	69
19	63	27	71	288	75	13	7	23	7	137	8	6	5	18	55
182	63	90	71	288	75	75	—	300	72	491	216	248	23	244	55
22	56	63	141	22	19	—	—	29	—	14	—	19	—	114	5
26	204	2 061	2 410	13	22	13	15	37	34	96	33	165	2	280	31
153	6	7	2	31	9	17	2	5	63	20	108	515	711	20	—
6	—	—	—	—	—	14	—	14	7	21	8	7	—	37	—
—	—	—	—	—	—	28	—	205	39	24	24	10	40	16	—
33	3	89	92	12	1	733	1 773	20	30	51	73	25	32	1 382	373
18 316	31 181	12 515	87 978	15 485	9 228	18 623	13 154	18 158	15 151	25 385	21 863	12 577	18 138	54 206	10 978
12 560	28 536	8 374	82 384	9 292	6 153	13 272	10 742	10 753	10 656	19 317	18 640	7 805	15 117	26 818	7 671
11 515	25 484	7 342	75 356	7 974	4 212	12 481	8 500	8 876	6 591	15 483	13 302	6 265	12 020	20 175	4 608
10	19	60	119	182	63	36	61	360	198	652	607	156	130	865	544
172	202	165	438	447	147	141	79	500	948	2 574	3 184	256	185	11 891	1 617
161	110	65	244	559	78	9 323	5 155	17	51	30	71	11	16	61	30
7 027	15 445	474	999	89	40	33	13	37	46	175	79	226	80	74	43
462	5 631	3 270	63 690	33	122	26	142	21	86	101	635	157	23	54	93
40	32	47	126	19	197	—	—	8	19	—	—	19	6	8	11
61	157	18	201	91	197	131	106	415	549	106	198	66	150	54	38
34	—	14	201	110	7	—	—	256	23	83	19	88	62	416	64
1 656	989	2 048	5 504	4 573	749	1 078	905	3 011	717	2 224	1 686	2 958	6 791	1 538	426
1 800	2 694	1 177	4 016	4 570	2 785	1 675	2 019	4 244	3 893	9 466	6 805	2 320	2 366	5 201	1 738
434	679	636	2 181	1 036	1 208	629	1 290	1 565	3 286	2 678	3 436	1 154	1 934	4 813	2 100
77	20	110	24	122	18	75	28	363	48	243	60	256	7	616	89
323	554	433	1 774	853	1 106	428	1 160	1 133	6	3 380	3 258	799	6	27	12
34	97	93	383	61	82	120	102	60	49	35	108	93	1 722	3 925	1 902
611	2 373	396	4 849	283	723	162	952	130	779	1 156	1 902	386	1 199	245	97
86	142	69	294	105	128	41	163	49	21	153	101	126	304	1 830	963
525	2 231	327	4 555	178	605	121	789	263	758	1 003	1 801	260	859	1 567	659
1 571	363	1 045	947	2 508	264	2 378	418	2 717	322	2 324	422	1 622	251	14 259	304
418	22	474	36	759	7	1 620	285	1 068	62	337	33	924	27	6 086	377
396	22	474	36	756	7	1 620	285	1 046	62	337	33	924	27	6 086	120
374	22	422	36	713	7	1 392	161	1 007	57	634	31	905	27	6 046	120
9	—	—	—	19	—	109	59	24	3	593	33	880	27	5 972	111
13	—	52	—	24	—	119	65	15	3	39	—	10	—	—	—
22	—	—	—	3	—	—	—	22	2	—	—	15	—	74	9
341	—	571	911	1 749	257	758	133	1 649	260	1 687	389	698	—	40	—
1 153	22	8	—	6	—	8	—	12	—	42	7	29	8	8 173	257
2	—	3	—	59	—	—	—	25	—	4	—	—	—	699	9
1 151	341	560	911	1 668	257	744	133	1 528	260	1 641	378	664	216	468	—
4 185	2 282	3 096	4 642	3 884	2 811	2 973	1 994	4 688	4 173	3 744	2 801	3 150	2 770	13 129	2 930
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
121	50	77	99	317	75	405	172	264	32	221	83	8	—	—	—
34	3	8	—	55	2	37	—	114	6	40	56	151	—	336	135
2 047	505	659	639	796	321	787	227	829	271	912	227	535	15	291	45
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
252	116	90	204	22	2	75	5	123	42	217	51	80	33	121	28
536	866	1 052	2 284	566	1 812	1 087	581	2 965	2 965	420	1 733	385	1 031	55	437
1 195	742	1 210	1 416	2 128	601	1 088	501	2 570	857	1 932	707	1 898	1 384	5 693	1 118
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Experienced unemployed not classified by occupation															

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing—Con.

United States	Furniture and fixtures		Stone, clay, glass, and concrete products		Primary iron and steel industries		Primary nonferrous industries		Fabricated metal industries		Machinery, except electrical		Electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over	26 169	15 428	39 703	13 989	60 215	8 561	19 489	7 261	77 254	30 846	92 601	34 787	51 007	65 900	166 752	56 987
Managerial and professional specialty occupations	782	280	1 277	431	995	169	576	174	2 421	663	4 413	1 222	4 317	1 578	2 606	832
Executive, administrative, and managerial occupations	686	217	912	200	598	121	377	101	1 863	568	2 871	843	2 221	1 012	1 608	498
Officials and administrators, public administration	8	23	14	7	19	5	15	13	49	37	58	59	64	8	14	20
Financial managers	95	13	97	8	36	—	36	2	187	30	399	33	317	39	160	8
Managers, marketing, advertising, and public relations	—	—	—	—	—	—	—	—	—	—	8	—	—	7	—	—
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, other specified managers	28	14	17	25	46	10	19	11	86	22	163	62	103	66	84	26
Other specified managers	421	107	637	60	302	45	178	20	1 108	221	1 476	291	1 171	420	739	179
Managers and administrators, n.e.c.	373	105	616	60	298	45	178	20	1 081	221	1 413	284	1 155	412	729	179
Self-employed	48	2	21	—	4	—	—	—	27	—	63	7	16	8	10	—
Management related occupations	134	60	147	100	195	61	129	55	433	258	767	398	566	472	611	265
Accountants and auditors	45	19	80	58	79	29	42	27	188	112	357	170	217	137	250	144
Personnel, training, and labor relations specialists	19	6	12	6	8	10	54	24	84	38	84	74	63	142	167	52
Buyers and purchasing agents	46	33	42	31	23	7	27	2	168	99	279	143	246	145	120	37
Inspectors and compliance officers	—	—	5	5	3	6	—	—	—	2	17	11	5	21	15	—
Other management related occupations	24	2	8	—	8	9	6	—	29	7	30	11	35	21	59	32
Professional specialty occupations	96	63	365	231	397	48	199	73	558	95	1 542	379	2 096	566	998	334
Engineers, architects, and surveyors	29	18	154	6	321	16	110	15	398	42	1 158	115	1 572	192	751	136
Architects	—	6	—	—	—	—	—	—	—	6	—	—	—	—	—	—
Engineers	29	12	154	6	321	16	110	15	398	30	1 154	115	1 572	192	738	136
Civil engineers	—	—	20	—	7	—	11	—	3	2	5	5	2	2	24	9
Electrical and electronic engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers	29	5	43	6	89	6	42	6	183	12	164	19	356	65	226	92
Mechanical engineers	—	—	33	6	48	6	21	6	138	5	524	12	94	102	361	32
Other engineers	—	7	58	—	170	10	36	9	74	11	202	33	193	25	95	3
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	6	—	—	—	—	13	—
Computer systems analysts and scientists	—	—	—	2	5	—	8	7	7	4	106	37	22	19	6	—
Operations and systems researchers and analysts	2	—	—	—	6	—	8	8	14	11	19	6	25	14	34	14
Mathematical scientists	—	—	—	—	11	—	5	5	10	—	12	—	6	6	12	—
Natural scientists	—	—	43	35	33	—	33	25	44	—	25	—	25	23	22	—
Chemists, except biochemists	—	—	43	35	33	—	33	25	24	—	25	—	13	6	4	—
Other natural scientists	—	—	—	—	—	—	—	—	—	—	8	—	—	—	—	—
Health diagnosing occupations	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	—	—	—	—	6	23	—	9	—	36	—	29	—	52	—	99
Registered nurses	—	—	—	—	6	23	—	9	—	36	—	29	—	36	—	99
Other health assessment and treating occupations	—	—	—	—	6	—	—	—	—	—	—	—	—	—	—	—
Teachers, except postsecondary	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	8	9	—	—	—	—	—	—	—	—	—	—
Social and recreation workers	5	4	7	—	—	—	20	4	18	—	20	33	56	24	20	13
Lawyers and judges	2	—	—	—	—	—	—	—	—	—	—	—	—	—	19	22
Writers, artists, entertainers, and athletes	—	—	150	182	6	—	23	—	24	—	11	—	—	—	—	—
Other professional specialty occupations	58	2	11	—	—	—	5	—	43	2	170	159	298	199	132	42
Technical, sales, and administrative support occupations	1 487	1 796	1 522	2 630	2 657	2 150	1 215	1 183	4 210	5 541	7 566	9 094	6 588	8 437	5 769	4 197
Technicians and related support occupations	81	—	296	139	616	62	203	29	705	272	1 769	481	2 218	828	644	94
Health technologists and technicians	—	—	7	7	12	—	—	16	7	8	—	10	—	19	2	—
Licensed practical nurses	—	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Other health technologists and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and science technicians	56	—	244	125	575	62	192	13	591	215	1 435	317	1 943	639	569	72
Electrical and electronic technicians	—	—	13	9	22	—	21	2	5	6	456	61	1 367	347	54	15
Industrial and mechanical engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Drafting and surveying technicians	55	—	64	9	128	17	60	2	355	24	699	148	394	110	107	6
Other engineering and science technicians	—	—	167	101	413	45	111	9	199	77	227	106	129	173	187	25
Technicians, except health, engineering, and science	25	—	45	7	29	—	11	—	107	49	334	154	275	170	73	22
Airplane pilots and navigators	—	—	—	—	5	—	5	—	—	—	13	—	6	—	2	—
Air traffic controllers and broadcast equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer programmers	4	—	12	4	—	—	2	—	36	18	188	108	121	105	33	17
Other technicians, except health, engineering, and science	21	—	33	3	13	—	4	—	49	31	120	46	148	65	38	5

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Furniture and fixtures		Stone, clay, glass, and concrete products		Primary iron and steel industries		Primary nonferrous industries		Fabricated metal industries		Machinery, except electrical		Electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.																
Sales occupations	348	118	271	230	180	15	200	64	691	251	1 139	344	824	367	495	110
Supervisors and proprietors, sales occupations	30	—	2	—	7	—	6	8	69	8	90	16	91	12	27	6
Sales representatives, finance and business services	21	—	2	—	7	—	6	8	69	8	90	16	91	12	27	6
Sales representatives, commodities, except retail	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, retail and personal services	306	81	267	193	168	3	159	32	597	156	942	234	643	221	300	41
Cashiers	12	29	2	37	5	12	20	17	25	78	100	87	90	16	16	23
Other sales occupations, retail and personal services	23	5	2	37	5	12	13	12	25	50	98	45	90	35	65	40
Sales related occupations	—	—	—	—	—	—	15	7	—	—	—	7	—	43	—	—
Administrative support occupations, including dental	1 058	1 678	955	2 261	1 861	2 073	812	1 090	2 814	5 018	4 658	8 269	3 546	7 242	4 630	3 993
Supervisors, administrative support occupations	42	35	45	32	132	18	45	44	241	119	230	125	236	142	121	53
Computer equipment operators	11	46	3	58	44	12	20	22	22	115	204	38	73	186	121	140
Secretaries, stenographers, and typists	4	540	—	773	15	749	8	443	22	1 677	38	3 060	56	2 203	11	1 282
Secretaries	4	432	—	682	15	575	8	370	16	1 329	32	2	8	1 034	7	248
Stenographers and typists	—	108	—	91	15	174	—	73	6	338	6	273	8	380	4	—
Receptionists	—	52	—	104	13	35	—	32	7	169	20	23	10	365	35	55
File clerks	23	23	—	4	—	—	20	—	5	22	20	23	10	365	35	55
Other information clerks	9	50	37	69	100	21	19	54	113	117	148	319	90	144	89	28
Other records processing occupations, except financial	31	69	54	52	34	73	6	25	100	145	227	257	130	229	134	150
Bookkeepers, accounting, and auditing clerks	27	171	22	416	51	149	27	127	97	728	143	960	61	671	74	318
Payroll and timekeeping clerks	9	62	—	41	40	81	12	26	65	172	82	172	32	122	63	74
Other financial records processing occupations	22	22	18	58	25	65	—	14	5	103	16	128	32	100	36	38
Telephone operators	6	23	3	38	—	23	—	15	—	23	6	91	5	153	13	38
Mail and message distributing occupations	35	12	25	21	70	23	12	9	72	292	94	6	87	88	67	39
Production coordinators and expeditors	137	86	104	65	257	99	40	8	291	156	567	316	550	344	960	404
Traffic, shipping, and receiving clerks	471	79	280	68	403	108	329	23	971	204	1 234	429	948	219	1 004	232
Stock and inventory clerks	166	66	195	45	169	35	108	45	484	300	1 014	27	768	532	1 206	312
Other material recording, scheduling, and distributing clerks	32	24	60	71	217	102	25	7	116	63	112	15	44	65	23	27
Adjusters and investigators	6	19	11	—	7	14	2	2	16	43	37	445	71	376	19	261
Date-entry keyers	8	33	10	64	257	202	108	68	14	624	379	1 061	314	1 026	276	430
Other administrative support occupations	64	266	88	282	257	274	108	126	136	624	379	1 061	314	1 026	276	430
Service occupations	556	128	1 028	173	2 130	488	615	122	1 898	383	2 506	606	1 859	743	3 613	826
Private household occupations	119	2	111	5	249	13	90	6	251	7	271	37	275	54	326	54
Protective service occupations	113	2	104	5	234	6	90	6	236	7	271	37	250	54	312	46
Guards	6	—	7	—	35	—	—	—	13	—	25	—	25	—	14	8
Other protective service occupations	437	126	917	168	1 861	475	595	116	1 647	376	2 235	569	1 584	689	3 287	772
Service occupations, except protective and household	23	32	4	21	28	42	11	23	8	376	2 235	569	1 584	689	3 287	772
Food preparation and service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cleaning and building service occupations, except household	407	92	913	134	1 768	431	500	88	1 636	319	2 150	400	1 530	501	3 200	641
Personal service occupations	7	2	—	13	43	2	14	5	2	15	27	27	—	25	20	28
Farming, forestry, and fishing occupations	28	—	42	9	72	14	31	4	69	7	105	8	53	29	57	20
Precision production, craft, and repair occupations	6 310	1 844	5 091	579	8 891	388	3 025	334	12 969	1 130	20 600	2 220	9 357	8 298	22 454	2 123
Mechanics and repairers	345	43	1 065	29	2 844	149	683	58	2 394	147	4 764	317	2 551	896	10 065	502
Supervisors, mechanics and repairers	7	—	1	—	28	—	6	—	28	—	21	—	15	—	21	—
Automobile mechanics, including body	7	—	182	3	47	—	25	8	135	—	402	35	93	40	4 584	237
Industrial machinery repairers	132	—	429	6	596	43	284	12	989	6	1 122	22	579	85	1 922	41
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	10	—	19	—	55	5	6	—	22	—	48	7	457	206	209	9
Other mechanics and repairers	189	43	422	20	2 096	101	358	38	1 161	3	352	19	80	5	3 289	215
Construction trades	1 372	168	1 912	148	2 328	73	601	33	2 643	218	1 697	119	1 627	340	2 942	293
Supervisors, construction occupations	7	—	84	—	44	—	16	—	42	—	29	—	27	—	23	—
Carpenters	1 149	106	1 334	23	179	—	110	8	397	5	217	—	130	28	23	—
Electricians	48	8	138	—	634	11	174	—	335	5	424	65	686	234	1 110	55
Painters, construction and maintenance	88	36	45	31	434	13	24	13	329	42	313	10	120	53	635	64
Plumbers, pipefitters, and steamfitters	12	—	62	5	427	10	8	—	343	41	426	87	187	41	693	99
Other construction trades	46	18	1 479	89	850	39	197	12	1 197	100	288	29	112	25	219	8

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States		Stone, clay, glass, and concrete products		Primary iron and steel industries		Primary nonferrous industries		Fabricated metal industries		Machinery, except electrical		Electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment	
Furniture and fixtures		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.															
Extraction occupations	4 593	1 633	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision production occupations	836	1 640	396	166	7 734	243	24	7 908	758	14 115	24	5 639	2	10	1 328
Supervisors, production occupations	236	68	143	29	166	43	2 107	203	203	938	1 938	1 757	6 970	9 437	3 868
Precision metalworking occupations	63	—	69	85	1 446	37	5 333	339	339	9 865	9 865	1 567	705	4 399	298
Food and die makers	125	66	—	6	1 552	6	1 490	17	17	1 634	1 634	1 736	255	1 736	25
Electronics	27	—	46	50	869	31	1 578	226	226	7 131	7 131	1 014	174	1 837	188
Sheet metal workers	21	—	41	7	90	2	1 877	51	51	514	514	37	323	37	28
Other precision metal workers	853	2	50	22	75	—	788	45	45	586	586	130	35	503	57
Precision textile, apparel, and furnishings machine workers	31	—	6	6	6	—	44	20	20	13	13	15	64	135	115
Precision food production occupations	4	—	20	29	13	—	18	5	5	68	68	12	34	51	13
Precision inspectors, testers, and related workers	—	—	9	61	61	—	105	69	69	201	201	557	1 093	344	80
Plant and system operators	—	13	128	201	16	31	80	73	73	69	69	17	57	73	23
Other precision production occupations	2 633	962	447	695	26	263	221	116	116	1 961	1 961	4 819	4 819	567	229
Operators, fabricators, and laborers	17 006	11 380	10 167	45 470	5 352	14 027	5 444	55 687	23 122	57 411	21 637	28 833	46 815	132 253	48 989
Machine operators, assemblers, and inspectors	12 489	10 105	7 559	25 694	3 233	9 658	4 549	42 043	19 531	47 341	19 771	22 889	43 344	16 329	45 763
Machine operators and tenders, except precision	6 738	5 952	3 455	19 288	2 174	7 689	2 607	25 577	9 731	24 471	2 212	9 810	11 625	38 003	13 200
Metalworking and plastic working machine operators	1 229	1 194	429	5 250	624	1 626	59	10 116	3 604	11 102	2 732	2 884	4 415	15 291	4 777
Fabricating machine operators, n.e.c.	61	32	26	161	59	80	59	412	183	190	140	51	355	355	221
Metal and plastic processing and woodworking machine operators	1 867	681	769	1 643	142	1 308	193	2 622	537	1 300	282	856	482	1 669	622
Printing machine operators	36	11	30	32	18	26	24	169	32	118	19	169	17	63	21
Textile machine operators	62	99	69	32	23	9	34	31	25	68	36	32	46	56	36
Textile sewing machine operators	188	1 672	24	—	5	—	32	39	111	32	186	10	175	189	1 478
Laundry and dry cleaning machine operators	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Packaging and filling machine operators	36	47	121	27	13	30	17	116	129	58	33	8	96	54	39
Furnace, kiln, and oven operators, except food	42	8	677	2 543	90	989	41	588	77	429	27	175	7	54	2
Other specified machine operators	1 164	754	773	2 511	203	822	198	2 797	710	2 380	439	1 243	1 159	4 765	1 240
Miscellaneous and not specified machine operators	2 042	1 454	1 641	7 089	997	2 799	1 186	8 687	4 323	8 790	3 333	4 323	7 632	13 022	4 861
Fabricators, assemblers, and hand working occupations	5 432	3 734	2 004	5 017	612	1 552	1 418	14 997	8 216	20 545	10 809	11 285	27 086	72 600	29 134
Welders and cutters	659	170	39	3 571	147	573	79	8 307	1 800	7 897	773	1 439	1 818	12 525	1 920
Solders and brazers	14	24	8	7	8	21	39	34	80	69	245	234	1 824	161	97
Assemblers	4 688	3 445	1 540	1 375	443	1 296	913	6 511	6 891	12 384	9 742	9 513	24 741	59 612	26 941
Hand working occupations	71	95	646	64	14	45	4	145	65	125	26	99	103	302	166
Production inspectors, testers, samplers, and weighers	319	419	774	1 389	447	417	524	1 489	1 584	2 325	1 760	1 794	4 633	7 726	3 319
Graders and sorters, except agricultural	22	6	138	87	35	15	14	86	125	61	90	44	104	34	28
Other production inspectors, testers, samplers, and weighers	297	413	636	1 302	412	402	510	1 383	1 459	2 264	1 660	1 750	4 529	7 692	3 291
Transportation and material moving occupations	1 403	121	8 687	6 450	378	1 463	159	5 482	450	4 342	327	2 118	317	8 955	837
Transportation occupations	767	19	6 422	70	61	372	20	1 523	101	1 360	112	542	40	2 640	225
Motor vehicle operators	767	19	6 390	1 119	41	364	20	1 495	101	1 549	112	542	33	2 597	225
Truck drivers	703	12	6 301	1 080	41	359	20	1 450	80	1 448	96	508	33	1 902	131
Driver-sales workers	18	7	11	39	—	5	—	5	14	24	7	21	—	16	6
Other motor vehicle operators	46	7	78	39	20	8	—	40	77	37	7	13	—	67	88
Rail and water transportation occupations	—	—	—	346	317	1 091	139	3 959	349	2 762	215	1 576	277	6 315	612
Material moving occupations	636	102	2 265	4 985	25	317	—	24	—	2 762	31	37	7	90	21
Supervisors, material moving equipment operators	6	—	145	25	137	221	34	601	43	298	18	33	20	419	61
Crane, hoist, and winch operators	8	—	124	31	180	8	—	306	—	2 386	—	1 506	250	5	10
Excavating, grading, and dozer machine operators	13	102	1 989	2 118	180	862	105	3 308	306	2 386	197	1 506	250	5 801	520
Other material moving equipment operators	609	—	162	2 118	180	862	105	3 308	306	2 386	197	1 506	250	5 801	520
Handlers, equipment cleaners, helpers, and laborers	3 114	1 154	8 581	13 326	1 741	2 906	736	8 162	3 141	5 728	1 539	3 826	3 154	6 969	2 419
Supervisors; handlers, equipment cleaners, and laborers, n.e.c.	9	—	2	8	—	—	—	924	122	7	—	—	—	—	—
Helpers, craft and production	247	39	238	1 494	84	255	92	162	24	613	34	268	64	279	35
Construction laborers	17	11	454	13	13	24	11	162	24	133	11	25	2	69	17
Freight, stock, and material handlers	808	147	1 539	1 059	67	945	119	1 288	436	811	130	907	587	1 500	436
Garage and service station occupations, and equipment cleaners	—	—	—	182	52	66	9	223	24	147	87	129	104	451	115
Hand packers and packagers	15	—	104	102	102	214	342	801	239	563	472	769	146	472	605
Hand packers and packagers, except construction	392	1 257	1 435	10 120	1 423	1 402	163	4 764	1 296	3 454	562	1 548	951	4 198	1 211
Laborers, except construction	1 411	565	4 987	—	—	—	—	—	—	—	—	—	—	—	—
Experienced unemployed not classified by occupation	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing—Con.										Transportation, communications, and other public utilities																								
	Aircraft, space vehicles, and parts					Other transportation equipment					Other durable goods					Total					Railroads					Trucking service and warehousing					Other transportation				
	Male	Female	Male	Female	Total	Male	Female	Male	Female	Total	Male	Female	Male	Female	Total	Male	Female	Male	Female	Total	Male	Female	Male	Female	Male	Female	Male	Female	Total						
Experienced unemployed 16 years and over																																			
Managerial and professional specialty occupations																																			
Executive, administrative, and managerial occupations																																			
Officials and administrators, public administration																																			
Financial managers																																			
Managers, marketing, advertising, and public relations																																			
Administrators, education and related fields																																			
Managers, medicine and health																																			
Other specified managers																																			
Managers and administrators, n.e.c.																																			
Self-employed																																			
Management related occupations																																			
Accountants and auditors																																			
Personnel, training, and labor relations specialists																																			
Buyers and purchasing agents																																			
Inspectors and compliance officers																																			
Other management related occupations																																			
Professional specialty occupations																																			
Engineers, architects, and surveyors																																			
Architects																																			
Engineers																																			
Civil engineers																																			
Electrical and electronic engineers																																			
Industrial engineers																																			
Mechanical engineers																																			
Other engineers																																			
Surveyors and mapping scientists																																			
Computer systems analysts and scientists																																			
Operations and systems researchers and analysts																																			
Mathematical scientists																																			
Natural scientists																																			
Chemists, except biochemists																																			
Other natural scientists																																			
Health diagnosing occupations																																			
Health assessment and treating occupations																																			
Registered nurses																																			
Other health assessment and treating occupations																																			
Teachers, except postsecondary																																			
Social scientists and urban planners																																			
Social and recreation workers																																			
Lawyers and judges																																			
Writers, artists, entertainers, and athletes																																			
Other professional specialty occupations																																			
Technical, sales, and administrative support occupations																																			
Technicians and related support occupations																																			
Health technicians and technicians																																			
Licensed practical nurses																																			
Other health technicians and technicians																																			
Engineering and science technicians																																			
Electrical and electronic technicians																																			
Industrial and mechanical technicians																																			
Drafting and surveying technicians																																			
Other engineering and science technicians																																			
Technicians, except health, engineering, and science																																			
Airplane pilots and navigators																																			
Air traffic controllers and broadcast equipment operators																																			
Computer programmers																																			
Other technicians, except health, engineering, and science																																			

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing—Con.				Transportation, communications, and other public utilities									
Aircraft, space vehicles, and parts		Other transportation equipment		Other durable goods		Total		Railroads		Trucking service and warehousing		Other transportation	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over—Con.													
Technical, sales, and administrative support occupations—Con.													
Sales occupations													
Supervisors and proprietors, sales occupations													
Sales representatives, finance and business services													
Sales representatives, commodities, except retail													
Sales workers, retail and personal services													
Cashiers													
Other sales occupations, retail and personal services													
Sales related occupations													
Administrative support occupations, including clerical													
Supervisors, administrative support occupations													
Computer equipment operators													
Secretaries, stenographers, and typists													
Secretaries													
Stenographers and typists													
Receptionists													
File clerks													
Other records processing occupations, except financial													
Bookkeepers, accounting, and auditing clerks													
Payroll and timekeeping clerks													
Other financial records processing occupations													
Telephone operators													
Mail and message distributing occupations													
Production coordinators and expeditors													
Traffic, shipping, and receiving clerks													
Stock and inventory clerks													
Other material recording, scheduling, and distributing clerks													
Adjusters and investigators													
Data-entry keyers													
Other administrative support occupations													
Service occupations													
Private household occupations													
Protective service occupations													
Guards													
Other protective service occupations													
Service occupations, except protective and household													
Food preparation and service occupation													
Health service occupations													
Cleaning and building service occupations, except household													
Personal service occupations													
Farming, forestry, and fishing occupations													
Precision production, craft, and repair occupations													
Mechanics and repairers													
Supervisors, mechanics and repairers													
Automobile mechanics, including body													
Industrial machinery repairers													
Electronic repairers, communications and industrial equipment													
Heating, air conditioning, and refrigeration mechanics													
Other mechanics and repairers													
Construction trades													
Supervisors, construction occupations													
Carpenters													
Electricians													
Painters, construction and maintenance													
Plumbers, pipefitters, and steamfitters													
Other construction trades													

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing—Con.				Transportation, communications, and other public utilities							
	Aircraft, space vehicles, and parts		Other transportation equipment		Other durable goods		Total		Railroads		Trucking service and warehousing	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States												
Experienced unemployed 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extractive occupations	2 297	8 5	2 986	451	6 130	4 944	60	510	8	17	1 422	16
Precision production occupations	2 277	5 0	2 967	437	6 117	4 933	4 933	1 171	586	17	1 499	80
Supervisors, production occupations	1 780	54	1 780	218	3 044	1 895	2 055	1 101	354	7	1 172	220
Precision metalworking occupations	1 780	54	1 780	218	3 044	1 895	2 055	1 101	354	7	1 172	220
Tool and die makers	684	15	684	37	1 075	284	33	19	305	7	44	99
Machinists	476	24	476	46	1 075	284	33	19	305	7	16	43
Sheet metal workers	450	24	450	112	1 354	1 115	115	11	16	7	15	5
Other precision metal workers	31	7	31	79	1 354	1 115	115	11	16	7	15	5
Precision textile, apparel, and furnishings machine workers	108	5	108	1	121	539	216	48	135	5	146	17
Precision food production occupations	2	17	2	98	1 055	1 171	50	142	29	5	20	72
Precision rubber, plastic, and glass machine operators	92	17	92	205	1 055	1 171	50	142	29	5	20	72
Other precision production occupations	5 564	2 827	5 564	4 155	29 336	40 730	171 588	12 356	23 790	502	100 102	28 980
Operators, fabricators, and laborers	4 875	2 607	4 875	3 437	20 078	34 285	8 176	1 451	3 209	53	1 325	1 792
Machine operators and tenders, except precision	2 476	967	2 476	1 430	2 383	1 881	4 141	712	1 735	24	619	399
Metalworking and plastic working machine operators	1 533	77	1 533	273	2 383	1 881	350	42	1 186	—	38	28
Fabricating machine operators, n.e.c.	153	77	153	99	61	131	10	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	153	33	153	46	1 166	942	90	11	24	—	12	7
Printing machine operators	9	1	9	13	168	181	50	41	—	—	11	24
Textile machine operators	13	1	13	125	115	158	7	23	—	—	10	7
Textile sewing machine operators	103	10	103	184	113	158	19	17	—	—	10	7
Laundry and dry cleaning machine operators	—	—	—	—	18	2	22	—	—	—	17	7
Packaging and filling machine operators	—	—	—	—	76	598	50	7	—	—	11	7
Furnace, kiln, and oven operators, except food	21	1	21	12	130	36	206	13	4	—	22	63
Other specified machine operators	321	153	321	182	1 900	1 566	401	80	13	—	138	104
Miscellaneous and not specified machine operators	839	311	839	574	6 320	8 155	2 936	478	1 462	24	360	246
Fabricators, assemblers, and hand working occupations	2 012	1 380	2 012	1 909	7 726	16 436	3 230	334	1 255	29	451	59
Fitters and cutters	421	78	421	457	2 007	393	2 490	18	1 082	22	282	16
Solders and brazers	12	1	12	4	20	394	7	—	—	—	155	29
Hand workers, except machine operators	1 540	1 899	1 540	1 346	5 209	15 083	595	234	102	7	155	29
Production inspectors, testers, and weighers	39	28	39	102	433	566	138	16	71	—	265	44
Graders and sorters, except agricultural	387	258	387	108	669	2 968	805	405	219	—	103	112
Other production inspectors, testers, samplers, and weighers	—	6	—	—	30	212	114	307	11	—	103	10
Transportation and material moving occupations	387	252	387	108	639	2 756	691	98	208	—	152	45
Transportation occupations	283	29	283	87	2 592	495	112 385	6 925	9 123	258	78 164	20 948
Motor vehicle operators	116	2	116	33	1 045	56	106 809	6 694	8 534	215	2 548	3 750
Truck drivers	103	2	103	23	1 033	51	92 301	6 326	6 31	11	75 515	19 523
Driver-sales workers	8	—	8	23	967	36	80 170	2 912	578	9	74 898	13 022
Other motor vehicle operators	—	—	—	—	—	6	173	30	13	—	123	205
Rail and water transportation occupations	167	27	167	10	66	19	11 958	3 383	40	2	494	30
Material moving equipment operators	—	—	—	—	—	—	14 508	368	7 903	204	73	11 281
Supervisors, material moving equipment operators	23	—	23	4	83	2	5 576	231	589	43	2 572	6 501
Crane, hoist and wind operators	—	—	—	—	—	—	334	6	134	—	75	1 425
Excavating, grading, and dozer machine operators	144	27	144	50	12	2	469	38	116	—	95	1 277
Other material moving equipment operators	—	—	—	—	—	—	487	84	98	—	24	84
Handlers, equipment cleaners, helpers, and laborers	406	191	406	631	5 866	5 950	51 027	3 980	11 458	191	2 359	1 190
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	—	—	—	—	—	—	—	—	—	—	20 613	6 825
Helpers, craft and production	77	34	77	103	314	8	51	6	—	—	14	23
Construction laborers	12	—	12	2	87	56	1 047	48	203	—	213	144
Freight stock and material handlers	23	11	23	2	975	343	1 511	70	523	—	12	65
Garage and service station occupations, and equipment cleaners	29	12	29	65	107	103	1 418	133	185	—	15 331	4 234
Hand packers and packagers	39	20	39	65	1 011	3 617	973	1 136	52	4	534	707
Laborers, except construction	226	114	226	396	3 372	1 818	20 851	1 393	10 477	187	3 677	1 521
Experienced unemployed not classified by occupation												

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Transportation, communications, and other public utilities—Con.				Wholesale trade				Retail trade							
	Communications		Utilities and sanitary services		Total		Groceries and farm products		Total		General merchandise stores		Food, bakery, and dairy stores		Automotive dealers and gasoline stations	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over	14 843	16 715	34 059	6 515	132 051	69 015	32 445	20 073	517 520	639 824	41 025	102 770	70 362	81 139	110 158	25 790
Managerial and professional specialty occupations	4 425	2 993	1 661	437	9 847	4 541	1 947	827	36 034	32 780	2 659	4 463	2 807	2 317	4 153	1 252
Executive, administrative, and managerial occupations	—	872	967	320	8 728	3 654	1 835	725	31 665	26 215	2 198	3 495	2 755	2 187	4 063	1 230
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	12	12	28	27	311	209	28	32	369	471	27	60	14	20	130	105
Managers, marketing, advertising, and public relations	160	45	25	7	1 744	264	284	30	3 271	2 181	258	389	187	137	1 096	101
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	504	423	628	115	4 556	1 950	708	333	24 512	18 840	1 173	1 447	2 138	1 620	2 490	819
Managers and administrators, n.e.c.	488	423	606	115	4 221	1 896	691	324	21 892	17 193	1 161	1 436	1 965	1 539	2 371	812
Self-employed	16	—	22	—	245	54	17	9	2 620	1 647	12	11	173	81	119	7
Management related occupations	156	201	266	163	1 926	1 138	774	306	2 565	3 915	616	1 349	308	311	219	166
Accountants and auditors	93	66	89	95	1 410	449	143	120	588	1 068	121	214	52	135	87	112
Personnel, training, and labor relations specialists	20	64	47	17	1 322	75	69	28	390	46	46	129	47	57	43	22
Buyers and purchasing agents	20	17	23	—	502	134	536	134	1 336	2 130	399	950	187	86	50	32
Inspectors and compliance officers	5	—	33	33	13	37	—	—	45	35	23	7	6	20	4	—
Other management related occupations	18	54	9	18	100	75	26	—	206	170	27	49	16	13	35	—
Professional specialty occupations	3 553	1 879	694	117	1 119	887	112	102	4 369	6 565	461	968	52	130	90	22
Engineers, architects, and surveyors	397	57	459	33	371	47	23	23	180	33	5	6	9	3	16	—
Architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers	397	57	451	29	361	47	23	23	142	19	5	6	2	3	16	—
Civil engineers	6	—	18	11	54	—	—	—	11	—	—	—	—	—	—	—
Electrical and electronic engineers	325	50	178	13	43	—	—	—	32	—	—	—	—	—	—	—
Industrial engineers	17	7	25	13	65	42	16	23	43	14	—	6	—	3	6	—
Mechanical engineers	5	—	29	5	79	11	7	—	11	—	—	—	—	—	—	—
Other engineers	44	—	7	4	120	5	—	—	45	—	—	—	7	—	10	—
Surveyors and mapping scientists	—	—	8	—	8	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	—	—	20	—	60	30	3	—	45	31	14	7	—	—	—	—
Operations and systems researchers and analysts	—	12	7	—	17	18	10	6	9	4	2	—	—	4	—	—
Mathematical scientists	—	—	16	6	10	22	10	—	7	33	—	14	—	—	—	—
Natural scientists	7	10	79	17	104	58	27	10	16	49	—	—	—	—	—	—
Chemists, except biochemists	7	10	43	17	73	30	20	10	13	13	—	—	—	—	—	—
Other natural scientists	6	—	36	17	73	28	7	—	16	36	—	—	—	5	—	—
Health diagnosing occupations	—	—	—	—	—	—	—	—	23	25	—	—	—	—	—	—
Health assessment and treating occupations	—	—	—	—	—	—	—	—	1 012	596	13	42	25	—	—	—
Registered nurses	—	—	—	2	7	34	—	—	6	61	—	12	—	—	—	—
Other health assessment and treating occupations	—	—	—	2	7	22	—	—	1 006	535	13	30	25	—	—	—
Teachers, except postsecondary	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	—	13	24	16	13	62	18	5	151	322	7	82	—	7	—	—
Social and recreation workers	—	29	36	3	105	40	—	—	10	16	—	16	—	25	—	—
Lawyers and judges	11	—	1	—	6	—	—	—	59	17	—	9	—	—	26	—
Writers, artists, entertainers, and athletes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other professional specialty occupations	3 069	1 710	49	25	391	556	31	58	2 811	5 366	420	787	18	86	37	22
Technical, sales, and administrative support occupations	3 598	12 502	3 106	4 079	31 805	39 028	4 522	6 777	128 359	326 507	18 827	86 053	21 678	59 320	26 806	18 408
Technicians and related support occupations	769	405	664	167	776	409	34	96	687	906	91	14	40	43	118	433
Health technologists and technicians	—	—	72	26	8	2	—	—	5	105	5	28	—	13	—	8
Health technologists and technicians	—	—	—	13	—	—	—	—	5	30	5	11	—	4	—	—
Health technologists and technicians	—	—	—	13	—	—	—	—	24	15	—	—	—	—	—	—
Health technologists and technicians	—	—	—	13	—	—	—	—	350	176	23	23	37	18	46	8
Engineering and science technicians	331	156	348	101	418	236	25	77	128	23	4	—	—	—	8	—
Electrical and electronic technicians	214	32	53	19	99	17	—	—	44	20	—	—	—	—	5	—
Industrial and mechanical technicians	6	6	2	—	16	—	—	—	87	66	8	—	18	—	33	—
Drafting and surveying technicians	59	113	130	52	123	35	6	—	91	184	11	3	19	12	—	—
Other engineering and science technicians	52	5	163	30	180	163	17	77	308	625	63	23	3	12	72	417
Technicians, except health, engineering, and science	438	249	244	40	350	171	9	19	25	7	—	—	—	—	6	—
Airplane pilots and navigators	12	—	15	—	19	—	—	—	17	—	—	—	—	—	7	—
Air traffic controllers and broadcast equipment operators	241	88	11	—	7	—	—	—	87	83	7	9	—	—	4	—
Computer programmers	54	42	44	22	110	—	—	19	—	—	—	—	—	—	—	—
Other technicians, except health, engineering, and science	131	119	174	18	221	65	9	—	179	535	56	14	3	5	55	406

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Wholesale trade				Retail trade			
	Communications		Utilities and sanitary services—Con.		Total		Groceries and farm products		General merchandise stores		Food, bakery, and dairy stores	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States												
Experienced unemployed 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations	652	851	243	221	19 106	8 228	2 795	1 856	105 330	261 225	13 138	70 120
Supervisors and proprietors, sales occupations	12	10	49	—	1 915	459	10	70	1 968	14 839	1 688	2 896
Salaried	12	10	49	—	1 384	403	239	17	1 883	12 860	1 883	2 896
Self-employed	—	—	—	—	531	56	59	3	85	1 979	35	77
Sales representatives, finance and business services	544	551	138	54	15 276	5 350	2 342	851	83 979	245 363	11 109	67 058
Sales representatives, commodities, except retail	—	—	5	—	1 830	2 260	122	828	18 211	121 781	1 013	23 671
Sales workers, retail and personal services	96	290	32	167	1 236	1 622	99	744	45 768	123 577	10 016	43 138
Cashiers	5	113	19	158	1 594	120	23	83	26	866	26	138
Other sales occupations, retail and personal services	91	177	19	9	29	120	17	83	26	866	26	138
Sales related occupations	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	2 177	11 246	2 199	3 691	11 923	30 391	1 703	4 825	22 342	64 376	5 598	15 859
Supervisors, administrative support occupations	345	276	65	64	788	557	110	92	911	1 653	80	177
Computer equipment operators	72	12	12	—	200	839	143	13	177	262	177	427
Secretaries, stenographers, and typists	374	1 398	41	1 206	1 633	8 228	15	1 030	182	10 881	13	1 172
Secretaries	27	344	13	884	83	7 224	15	908	108	9 049	14	570
Stenographers and typists	27	344	28	322	80	1 044	122	74	13	1 832	14	570
Receptionists	43	210	34	161	104	1 161	158	46	2 289	241	6	65
Other information clerks	18	230	14	88	76	273	40	170	71	292	23	575
File clerks	189	924	100	164	1 014	1 482	159	222	290	1 114	5	53
Other records processing occupations, except financial	31	422	159	432	602	5 994	67	1 113	84	1 484	234	181
Bookkeepers, accounting, and auditing clerks	—	—	23	45	9	184	—	—	84	1 484	234	181
Payroll and timekeeping clerks	—	—	23	45	9	184	—	—	84	1 484	234	181
Other financial records processing occupations	5	109	29	141	117	1 060	29	153	58	455	44	123
Telephone operators	643	4 622	31	36	348	252	28	30	18	106	10	337
Mail and message distributing occupations	252	231	47	39	274	406	55	128	106	714	69	172
Production coordinators and expeditors	62	223	30	39	274	406	55	128	106	714	69	172
Traffic, shipping, and receiving clerks	38	19	60	4	3 650	845	462	119	3 450	1 682	312	887
Stock and inventory clerks	84	18	164	37	2 841	1 424	409	209	9 120	5 109	2 672	1 226
Order and inventory clerks	21	193	106	227	477	666	155	268	629	1 763	127	1 126
Advertising and marketing	34	103	49	161	193	404	15	42	60	347	41	347
Advertising salespersons	27	199	—	47	31	934	9	162	13	447	13	447
Date-entry typists	27	199	—	47	31	934	9	162	13	447	13	447
Other administrative support occupations	259	1 612	273	769	972	4 411	112	760	411	2 420	368	966
Service occupations	527	279	1 967	299	3 863	1 546	1 527	796	154 677	234 988	5 219	5 093
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	118	9	405	75	502	21	178	7	2 699	1 246	1 021	990
Guards	118	9	382	75	493	21	178	7	2 699	1 246	1 021	990
Other protective service occupations	—	—	23	—	9	—	—	—	—	—	—	—
Service occupations, except protective and household	409	270	1 562	224	3 361	1 525	1 349	789	151 978	233 742	4 198	4 103
Food preparation and service occupation	42	52	52	11	376	625	267	491	133 713	226 305	986	3 103
Health service occupations	2	—	7	11	17	21	6	281	17 377	4 542	3 081	599
Cleaning and building service occupations, except household	341	164	1 491	188	2 913	775	1 069	281	17 377	4 542	3 081	599
Personal service occupations	24	54	12	9	55	104	7	10	874	2 111	129	387
Farming, forestry, and fishing occupations	26	—	356	51	649	178	180	41	973	471	58	13
Precision production, craft, and repair occupations	5 163	899	9 377	420	19 036	2 793	3 506	1 002	60 650	10 059	3 085	1 199
Mechanics and repairers	4 529	791	1 762	60	8 535	313	584	28	35 148	871	1 914	137
Supervisors, mechanics and repairers	33	—	31	—	1 756	46	113	—	1 479	335	1 141	20
Automobile mechanics, including body	22	—	233	2	717	43	146	7	25 206	616	87	87
Industrial machinery repairers	37	—	241	2	—	—	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment	892	41	117	—	139	11	7	—	1 244	30	151	—
Heating, air conditioning, and refrigeration mechanics	7	—	17	—	1 503	6	23	—	5 965	389	53	—
Other mechanics and repairers	3 538	750	1 123	58	4 359	207	277	21	5 965	389	480	117
Construction trades	532	43	5 287	161	4 302	138	90	26	10 359	399	535	40
Supervisors, construction occupations	28	—	801	5	62	2	—	—	229	6	30	—
Carpenters	103	31	1 266	45	704	48	39	17	2 867	97	300	—
Electricians	31	13	1 266	45	399	72	18	7	373	6	18	—
Painters, construction and maintenance	21	21	243	8	397	72	21	7	986	107	94	19
Plumbers, pipefitters, and steamfitters	23	7	964	15	1 286	7	7	7	240	7	7	7
Other construction trades	349	7	1 749	82	1 454	2	5	2	5 664	176	86	21

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Transportation, communications, and other public utilities—Con.				Wholesale trade				Retail trade			
	Communications		Utilities and sanitary services		Total		Groceries and farm products		Total		General merchandise stores	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extraneous occupations	7	65	29	199	105	6	2 826	942	26	8 789	636	1 022
Precision production occupations	95	40	2 299	78	6 096	2 276	2 738	237	15 117	388	8 092	2 677
Supervisors, production occupations	40	19	569	6	2 461	679	771	306	3 096	1 615	566	170
Precision manufacturing occupations	17	5	421	6	1 036	175	28	12	7	94	30	441
Not in the market	11	—	9	—	65	—	18	—	218	—	24	—
Metal trades	—	—	137	—	407	39	10	—	62	23	—	—
Sheet metal workers	—	—	49	—	339	10	—	—	62	—	—	—
Other precision metal workers	6	5	226	6	225	134	—	—	382	—	—	—
Precision textile, apparel, and furnishings machine workers	8	—	—	—	70	642	1	51	514	71	7	—
Precision food production occupations	—	—	—	—	2 011	645	1 993	642	3 301	111	28	28
Precision inspectors, testers, and related workers	—	—	—	—	36	35	—	—	45	45	7 448	2 463
Repair and system occupations	21	34	58	—	128	128	33	—	126	8	5	8
Other precision production occupations	7	—	12	—	354	98	—	—	158	34	34	—
Operators, fabricators, and laborers	1 124	442	17 592	1 229	66 851	20 989	20 783	10 630	136 827	35 019	32 724	11 433
Machine operators, assemblers, and inspectors	203	180	2 232	287	11 721	1 036	2 738	6 073	8 497	6 578	948	982
Machine operators and tenders, except precision	110	78	1 037	108	6 834	3 832	1 454	1 220	5 464	3 975	449	473
Metalworking and plastic working machine operators	3	7	60	7	403	104	6	10	255	92	11	—
Fabricating machine operators, n.e.c.	2	—	8	—	28	23	8	—	21	2	—	—
Metal and plastic processing and woodworking machine operators	—	—	—	—	590	172	31	15	453	107	—	—
Printing machine operators	9	10	27	—	153	137	27	2	153	30	—	—
Textile machine operators	7	—	10	—	63	80	3	13	128	772	—	—
Textile sewing machine operators	—	—	5	—	80	222	16	14	772	90	2	—
Laundry and dry cleaning machine operators	—	—	9	—	26	28	—	—	56	—	—	—
Packaging and filling machine operators	—	—	28	—	196	369	113	216	107	8	27	—
Furnace, kiln, and oven operators, except food	6	—	84	13	207	9	33	268	47	16	—	—
Other specified machine operators	—	—	113	—	2 013	710	409	816	2 151	816	135	154
Miscellaneous and not specified machine operators	83	57	693	81	3 075	1 978	808	676	2 045	1 589	294	241
Fabricators, assemblers, and hand working occupations	60	87	1 009	135	3 291	1 963	273	396	2 616	1 752	392	366
Welders and cutters	6	13	827	15	1 471	44	35	18	406	44	51	6
Solders and brazers	—	—	7	—	20	27	—	—	2	—	—	—
Assemblers	45	66	175	120	1 573	1 443	162	260	1 704	45	112	95
Hand working occupations	9	2	—	—	227	197	76	118	514	37	229	265
Production inspectors, testers, samplers, and weighers	33	15	186	44	1 576	5 247	1 011	4 457	850	42	87	143
Graders and sorters, except agricultural	—	—	—	—	1 250	4 718	859	4 258	520	119	60	123
Other production inspectors, testers, samplers, and weighers	33	15	186	36	346	523	152	199	185	36	27	20
Transportation and material moving occupations	309	135	3 841	139	26 848	990	8 870	332	28 613	927	2 484	147
Transportation occupations	218	135	2 946	126	21 724	745	7 335	234	25 842	878	2 484	147
Motor vehicle operators	216	135	2 917	126	21 626	745	7 324	234	25 842	878	2 484	147
Truck drivers	184	128	2 801	123	19 880	600	5 773	174	22 656	648	1 787	120
Driver-sales workers	—	—	5	—	1 880	104	271	53	2 050	635	343	6
Other motor vehicle operators	32	7	111	3	568	41	130	7	1 240	228	18	—
Rail and water transportation occupations	2	—	27	—	38	—	—	—	26	—	—	—
Material moving equipment operators	91	—	895	13	5 124	245	1 535	98	2 671	42	336	21
Supervisors, material moving equipment operators	—	—	—	—	139	13	43	—	98	—	—	—
Crane, hoist and winch operators	4	—	170	—	460	—	12	—	53	—	7	—
Excavating, grading, and dozer machine operators	37	—	277	—	1 170	—	12	—	160	—	16	—
Other material moving equipment operators	50	—	446	13	4 355	228	1 468	98	2 360	217	313	21
Handlers, equipment cleaners, helpers, and laborers	612	127	11 519	803	28 282	8 963	9 175	4 225	99 717	25 661	29 292	10 304
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	—	—	14	—	36	—	—	—	23	9	—	—
Helpers, craft and production	22	19	465	34	791	63	70	39	1 777	432	371	343
Construction laborers	177	20	863	31	258	8	31	2	482	26	28	—
Freight, stock, and material handlers	127	7	5 299	246	8 832	872	3 846	371	43 915	10 359	25 519	5 753
Garage and service station occupations, and equipment cleaners	—	—	—	—	—	—	—	—	—	—	—	—
Hand packers and packagers	5	15	120	—	913	79	107	26	38 495	3 411	422	79
Hand packers and packagers, except construction	11	22	50	—	3 265	4 716	1 448	2 624	7 759	1 468	422	79
Laborers, except construction	270	44	4 906	442	14 167	3 225	3 667	1 163	13 049	3 662	2 069	337
Experienced unemployed not classified by occupation	—	—	—	—	—	—	—	—	—	—	—	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Retail trade—Con.				Finance, insurance, and real estate							
	Apparel and accessory stores		Eating and drinking places		Total		Banking and credit agencies		Insurance		Other finance and real estate	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over	15 478	42 838	165 142	270 614	115 355	116 633	63 665	106 817	13 914	42 102	13 120	31 236
Managerial and professional specialty occupations	1 380	2 794	16 183	12 178	8 852	9 716	11 481	12 037	4 559	4 434	1 832	2 062
Executive, administrative, and managerial occupations	1 270	2 452	14 819	11 315	6 560	5 552	10 407	10 778	4 318	4 127	1 466	1 692
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	26	47	6	10	166	22	1 324	981	—	—	—	—
Managers, marketing, advertising, and public relations	341	462	59	38	1 330	1 072	399	1 440	1 211	914	29	11
Administrators, education and related fields	6	—	—	—	—	—	—	—	38	24	148	43
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	47	117	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	635	1 247	14 152	123	244	180	2 659	3 079	86	56	55	60
Self-employed	611	1 176	12 198	9 479	3 924	2 957	2 607	2 546	580	600	692	680
Management related occupations	24	68	1 954	1 271	3 338	2 079	67	2 500	580	371	672	680
Accountants and auditors	215	545	318	394	889	1 147	3 418	4 025	2 403	2 533	535	898
Personnel, training, and labor relations specialists	14	115	84	111	230	38	888	1 097	445	563	234	305
Buyers and purchasing agents	11	37	134	169	109	76	157	577	50	162	34	125
Inspectors and compliance officers	177	385	67	34	456	645	157	577	26	22	20	16
Other management related occupations	13	7	30	52	85	49	130	87	24	69	41	37
Professional specialty occupations	110	342	1 364	863	2 292	4 240	2 177	2 428	1 858	1 779	178	411
Engineers, architects, and surveyors	—	—	41	—	109	—	1 074	1 259	241	307	366	370
Architects	—	—	17	10	19	—	217	49	9	—	104	11
Engineers	—	—	24	—	90	—	33	23	—	—	—	—
Civil engineers	—	—	11	—	—	—	158	7	9	—	—	—
Electrical and electronic engineers	—	—	4	—	—	—	52	—	—	—	—	—
Industrial engineers	—	—	6	—	23	—	69	7	—	—	—	—
Mechanical engineers	—	—	—	—	31	—	7	—	—	—	—	—
Other engineers	—	—	3	—	11	—	5	—	—	—	—	—
Surveyors and mapping scientists	—	—	—	—	25	—	25	—	—	—	—	—
Computer systems analysts and scientists	—	—	—	—	—	—	26	19	—	—	—	—
Operations and systems researchers and analysts	4	—	2	—	27	—	94	112	20	54	46	58
Mathematical scientists	7	5	—	—	—	—	73	46	31	9	18	31
Natural scientists	—	—	—	—	—	—	20	69	12	21	61	48
Chemists, except biochemists	—	—	—	—	16	—	6	6	—	6	—	—
Other natural scientists	—	—	9	—	16	—	14	—	—	—	—	—
Health diagnosing occupations	—	—	—	—	—	—	31	—	—	—	—	—
Health assessment and treating occupations	—	—	—	—	14	—	7	—	—	—	—	—
Registered nurses	—	—	—	—	974	507	19	120	11	12	8	61
Other health assessment and treating occupations	—	—	—	—	968	493	12	12	7	12	8	61
Teachers, except postsecondary	—	—	3	17	141	210	18	18	15	5	—	—
Social scientists and urban planners	—	—	4	—	6	—	118	116	51	62	19	24
Social and recreation workers	—	—	12	2	21	—	59	158	12	16	—	9
Lawyers and judges	—	—	—	—	7	—	120	42	22	10	61	21
Writers, artists, entertainers, and athletes	94	325	1 283	782	959	3 364	255	455	52	108	29	82
Other professional specialty occupations	—	—	4	—	18	20	25	68	5	4	13	25
Technical, sales, and administrative support occupations	10 411	35 364	5 291	36 555	45 346	90 607	27 777	88 148	7 344	36 513	10 232	28 609
Technicians and related support occupations	18	9	35	47	385	300	857	895	192	142	382	477
Health technologists and technicians	—	—	—	6	24	50	36	48	5	15	31	22
Licensed practical nurses	—	—	—	—	—	—	12	25	—	—	12	6
Other health technologists and technicians	—	—	—	—	—	—	24	23	5	7	16	13
Engineering and science technicians	16	—	32	23	196	104	96	59	18	—	29	26
Electrical and electronic technicians	—	—	9	—	107	23	11	11	—	—	—	—
Industrial and mechanical technicians	—	—	21	—	—	—	7	—	—	—	—	—
Drafting and surveying technicians	—	—	2	5	—	—	—	—	—	—	—	—
Other engineering and science technicians	16	—	2	18	44	35	48	26	—	—	—	—
Technicians, except health, engineering, and science	2	9	3	18	165	146	725	788	169	—	24	6
Airplane pilots and navigators	—	—	3	—	16	—	5	—	7	—	5	6
Air traffic controllers and broadcast equipment operators	—	—	—	—	10	7	—	—	—	—	—	—
Computer programmers	—	—	—	—	76	56	268	209	115	—	—	—
Other technicians, except health, engineering, and science	2	9	—	18	63	83	452	579	54	59	186	312

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States										Finance, insurance, and real estate									
Apparel and accessory stores				Eating and drinking places				Other retail trade				Total		Banking and credit agencies		Insurance		Other finance and real estate	
Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
Estimated unemployed 16 years and over—Con.																			
Technical, sales, and administrative support occupations—Con.																			
Sales occupations																			
Supervisors and proprietors, sales occupations																			
Self-employed																			
Sales representatives, finance and business services																			
Sales representatives, commodities, except retail																			
Sales workers, retail and personal services																			
Cashiers																			
Other sales occupations, retail and personal services																			
Sales related occupations																			
Administrative support occupations, including clerical																			
Supervisors, administrative support occupations																			
Computer equipment operators																			
Secretaries, stenographers, and typists																			
Stenographers and typists																			
Receptionists																			
Other information clerks																			
File clerks																			
Other records processing occupations, except financial																			
Bookkeepers, accounting, and auditing clerks																			
Payroll and timekeeping clerks																			
Other financial records processing occupations																			
Telephone operators																			
Mail and message distributing occupations																			
Production coordinators and expeditors																			
Traffic, shipping, and receiving clerks																			
Stock and inventory clerks																			
Other material recording, scheduling, and distributing clerks																			
Adjusters and investigators																			
Date-entry keyers																			
Other administrative support occupations																			
Service occupations																			
Private household occupations																			
Protective service occupations																			
Guards																			
Other protective service occupations																			
Service occupations, except protective and household																			
Food preparation and service occupation																			
Health service occupations																			
Cleaning and building service occupations, except household																			
Personal service occupations																			
Farming, forestry, and fishing occupations																			
Precision production, craft, and repair occupations																			
Mechanics and repairers																			
Supervisors, mechanics and repairers																			
Automobile mechanics, including body																			
Industrial machinery repairers																			
Electronic repairers, communications and industrial equipment																			
Heating, air conditioning, and refrigeration mechanics																			
Other mechanics and repairers																			
Construction trades																			
Supervisors, construction occupations																			
Carpenters																			
Electricians																			
Painters, construction and maintenance																			
Plumbers, pipefitters, and steamfitters																			
Other construction trades																			

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Retail trade—Con.				Finance, insurance, and real estate			
	Apparel and accessory stores		Eating and drinking places		Total		Banking and credit agencies	
	Male	Female	Male	Female	Male	Female	Male	Female
United States								
Experienced unemployed 16 years and over—Con.								
Precision production, craft, and repair occupations—Con.								
Extensive occupations								
Precision production occupations	687	2 057	574	399	232	84	21	28
Supervisors, production occupations	173	169	170	188	88	47	7	17
Precision metalworking occupations	3	7	18	9	25	25	8	—
Tool and die makers	—	—	—	—	—	—	—	—
Machinists	—	—	—	—	—	—	—	—
Sheet metal workers	3	—	10	9	17	—	—	—
Other precision metal workers	—	—	—	—	—	—	8	—
Precision textile, apparel, and furnishings machine workers	—	—	8	—	8	—	—	—
Precision food production occupations	499	1 876	374	202	9	4	—	—
Precision inspectors, testers, and related workers	6	3	—	—	6	14	7	—
Plant and system operators	—	2	12	—	104	—	6	—
Other precision production occupations	6	—	—	—	—	12	—	—
Operators, fabricators, and laborers	2 095	2 148	4 144	1 723	3 582	847	572	318
Machine operators, assemblers, and inspectors	271	1 032	410	410	162	492	129	170
Machine operators and tenders, except precision	246	873	235	268	558	403	114	127
Metalworking and plastic working machine operators	—	—	17	5	17	2	—	—
Fabricating machine operators, n.e.c.	—	2	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	—	—	—	—	—	—	—	—
Printing machine operators	17	15	8	6	17	2	—	—
Textile machine operators	5	53	12	9	168	85	47	26
Textile sewing machine operators	—	—	—	—	—	—	—	—
Laundry and dry cleaning machine operators	50	487	73	9	7	20	—	—
Package and filling machine operators	7	—	37	74	17	22	—	—
Food processing and filling machine operators	14	6	—	—	5	11	—	—
Food, kind, and oven operators	—	—	16	—	93	22	—	—
Other specified machine operators	144	121	21	31	105	97	25	30
Miscellaneous and not specified machine operators	9	172	114	129	129	157	31	49
Fabricators, assemblers, and hand working occupations	17	66	61	113	53	38	22	13
Welders and cutters	6	—	—	10	34	13	12	—
Solders and brazers	—	—	—	—	—	—	—	—
Assemblers	—	18	49	51	—	25	—	13
Hand working occupations	11	48	6	52	14	7	—	—
Production inspectors, testers, samplers, and weighers	8	93	—	31	41	51	3	4
Graders and sorters, except agricultural	2	56	—	—	16	51	4	4
Other production inspectors, testers, samplers, and weighers	6	37	—	31	25	—	—	—
Transportation and material moving occupations	299	20	2 631	438	820	56	233	18
Transportation occupations	280	20	2 585	426	612	56	84	2
Motor vehicle operators	280	20	2 578	423	612	56	70	2
Truck drivers	221	15	2 094	340	369	20	147	9
Driver-sales workers	22	—	—	69	17	36	38	2
Other motor vehicle operators	37	—	222	14	226	36	10	—
Rail and water transportation occupations	—	—	7	3	—	—	22	—
Material moving equipment operators	19	—	46	12	208	—	12	—
Supervisors, material moving equipment operators	—	—	88	—	10	—	14	—
Crane, hoist and winch operators	—	—	39	—	5	—	—	—
Excavating, grading, and dozer machine operators	—	—	36	—	103	—	6	—
Other material moving equipment operators	19	—	46	12	90	—	8	—
Handlers, equipment cleaners, helpers, and laborers	1 525	1 096	1 219	875	2 110	299	177	61
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	—	—	—	—	—	—	—	—
Helpers, craft and production	10	11	40	—	—	7	—	—
Construction laborers	6	—	27	10	160	49	17	—
Freight, stock, and material handlers	1 218	440	483	158	237	15	4	—
Garage and service station occupations, and equipment cleaners	58	—	45	6	288	30	65	12
Hand packers and packagers	52	460	163	390	46	—	11	—
Laborers, except construction	181	185	461	311	2	20	2	5
Experienced unemployed not classified by occupation	—	—	—	—	1 377	177	72	24
Other finance and real estate	—	—	—	—	—	—	—	—
Male	186	—	—	—	2 707	—	—	—
Female	34	—	—	—	359	—	—	—
Male	35	—	—	—	361	—	—	—
Female	17	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	9	—	—	—	9	—	—	—
Female	7	—	—	—	7	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—
Female	—	—	—	—	—	—	—	—
Male	6	—	—	—	6	—	—	—
Female	—	—	—	—	—	—	—	—
Male	7	—	—	—	7	—	—	—
Female	—	—	—	—	—	—	—	—
Male	104	—	—	—	104	—	—	—
Female	8	—	—	—	8	—	—	—
Male	2 707	—	—	—	2 707	—	—	—
Female	359	—	—	—	359	—	—	—
Male	361	—	—	—	361	—	—	—
Female	114	—	—	—	114	—	—	—
Male	17	—	—	—	17	—	—	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Business services				Automotive repair and services				Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services				Professional and related services			
	Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female
Experienced unemployed 16 years and over	92 119	94 993	13 210	13 052	55 509	7 305	20 611	3 429	37 447	63 462	28 275	82 931	64 250	44 322	101 591	417 988	33 847	91 005										
Managerial and professional specialty occupations	13 210	13 052	7 523	7 283	1 723	498	405	180	4 850	4 309	2 914	3 522	24 594	14 004	58 274	110 419	5 110	16 574										
Executive, administrative, and managerial occupations	7 523	7 283	4 464	4 289	1 657	447	376	145	3 770	3 353	1 431	1 503	5 410	3 441	13 831	16 622	1 710	1 971										
Officials and administrators, public administration	351	98	3	18	33	7	6	6	45	33	6	7	7	25	228	194	70	51										
Financial managers	464	289	3	18	58	23	6	6	68	111	5	7	60	35	1 047	2 791	16	25										
Managers, marketing, advertising, and public relations	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18	3	18										
Administrators, education and related fields	235	312	2 725	2 349	1 452	318	303	128	2 957	2 751	899	1 914	4 695	3 005	1 071	2 791	16	25										
Managers, medicine and health	2 725	2 349	2 403	2 172	1 238	298	243	110	2 957	2 751	899	1 914	4 695	3 005	1 071	2 791	16	25										
Managers and administrators, n.e.c.	2 403	2 172	322	322	214	20	60	18	2 625	2 535	658	1 072	4 342	2 788	5 953	7 974	462	635										
Salaries	322	322	177	177	214	20	60	18	2 625	2 535	658	1 072	4 342	2 788	5 953	7 974	462	635										
Self-employed	3 745	4 217	1 484	1 484	87	66	65	11	572	338	98	127	488	307	3 816	3 670	317	462										
Management related occupations	3 745	4 217	1 484	1 484	87	66	65	11	572	338	98	127	488	307	3 816	3 670	317	462										
Accountants and auditors	1 290	1 941	1 290	1 941	36	28	32	4	431	261	28	42	261	84	2 114	1 828	122	165										
Personnel, training, and labor relations specialists	1 290	1 941	1 290	1 941	36	28	32	4	431	261	28	42	261	84	2 114	1 828	122	165										
Buyers and purchasing agents	113	100	113	100	10	9	19	5	52	45	35	42	92	83	231	153	77	76										
Inspectors and compliance officers	102	52	102	52	7	7	5	7	10	23	17	38	195	138	484	539	22	68										
Other management related occupations	1 816	1 589	5 687	5 769	66	51	29	35	1 080	956	1 483	2 019	19 184	10 563	44 443	93 797	3 400	14 603										
Professional specialty occupations	5 687	5 769	526	85	3	5	27	—	76	17	14	7	130	14	4 463	408	82	6										
Engineers, architects, and surveyors	526	85	12	12	3	5	27	—	10	17	—	—	66	14	2 651	196	82	6										
Architects	12	12	503	62	3	5	27	—	66	17	14	7	130	14	2 651	196	82	6										
Engineers	503	62	30	15	3	5	27	—	10	17	—	—	16	14	2 651	196	82	6										
Civil engineers	30	15	111	34	—	—	5	—	11	17	—	—	11	17	114	52	19	—										
Electrical and electronic engineers	111	34	77	4	—	—	5	—	11	17	—	—	11	17	114	52	19	—										
Industrial engineers	77	4	62	9	3	5	15	—	17	—	8	—	8	—	125	22	18	—										
Mechanical engineers	62	9	223	9	3	5	15	—	17	—	8	—	8	—	125	22	18	—										
Other engineers	223	9	11	23	—	—	7	—	22	—	6	—	6	—	1037	54	33	6										
Surveyors and mapping scientists	11	23	—	—	—	—	—	—	6	—	—	—	—	—	163	118	8	5										
Computer systems analysts and scientists	469	139	—	—	—	—	—	—	—	—	—	—	—	—	104	44	7	7										
Operations and systems researchers and analysts	50	31	—	—	—	—	—	—	—	—	—	—	—	—	113	166	95	144										
Mathematical scientists	39	35	—	—	6	—	—	—	18	6	6	—	27	5	810	592	102	13										
Natural scientists	248	155	—	—	—	—	—	—	18	6	6	—	27	5	810	592	102	13										
Chemists, except biochemists	103	71	—	—	—	—	—	—	18	6	6	—	27	5	810	592	102	13										
Other natural scientists	145	84	—	—	—	—	—	—	18	6	6	—	27	5	810	592	102	13										
Health diagnosing occupations	31	127	—	—	—	—	—	—	9	—	—	—	34	—	489	1 002	580	267										
Health assessment and treating occupations	31	127	—	—	—	—	—	—	9	—	—	—	34	—	489	1 002	580	267										
Registered nurses	24	109	—	—	—	—	—	—	9	—	—	—	34	—	489	1 002	580	267										
Other health assessment and treating occupations	7	18	—	—	—	—	—	—	9	—	—	—	34	—	489	1 002	580	267										
Teachers, except postsecondary	54	91	—	—	—	—	—	—	367	306	218	708	1 293	1 455	12 624	44 428	47	171										
Social scientists and urban planners	270	274	—	—	11	6	8	—	21	6	—	—	28	—	1 090	1 361	214	216										
Social and recreation workers	64	87	—	—	—	—	—	—	274	385	18	49	448	529	4 396	8 508	255	659										
Lawyers and judges	22	15	—	—	7	—	—	—	—	—	—	—	—	10	15	156	4	—										
Writers, artists, entertainers, and athletes	3 847	3 600	—	—	32	40	2	20	290	192	1 178	824	17 154	8 386	4 709	4 327	102	193										
Other professional specialty occupations	67	130	—	—	7	—	—	—	19	10	27	15	—	29	102	11 763	124	142										
Technical, sales, and administrative support occupations	17 646	54 683	3 699	2 872	2 070	4 164	732	1 715	3 560	9 604	1 928	11 040	4 956	11 855	27 540	136 189	5 510	30 479										
Technicians and related support occupations	3 699	2 872	96	845	23	29	190	18	49	55	166	924	543	1 099	11 240	20 726	2 437	10 302										
Health technicians and technicians	96	845	36	790	—	—	—	—	7	7	26	856	14	21	3 153	16 211	2 136	9 985										
Licensed practical nurses	36	790	—	—	—	—	—	—	7	7	26	856	14	21	3 153	16 211	2 136	9 985										
Other health technicians and technicians	60	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
Engineering and science technicians	1 932	957	316	69	—	—	99	12	30	22	29	28	204	29	2 786	8 364	1 897	5 214										
Electrical and electronic technicians	316	69	—	—	—	—	74	6	5	5	8	—	159	11	255	82	76	20										
Industrial and mechanical technicians	32	8	—	—	—	—	18	—	18	17	13	—	7	—	4	67	7	7										
Drafting and surveying technicians	747	403	—	—	—	—	18	—	18	17	13	—	7	—	4	67	7	7										
Other engineering and science technicians	837	477	—	—	—	—	7	—	7	—	8	—	38	14	4 114	1 350	158	46										
Technicians, except health, engineering, and science	1 671	1 070	21	127	23	7	91	6	12	26	111	40	325	59	2 301	2 387	164	225										
Alpine pilots and navigators	21	127	—	—	—	—	—	—	—	—	—	—	12	23	47	14	13	7										
Air traffic controllers and broadcast equipment operators	102	285	—	—	—	—	—	—	3	7	—	—	181	5	54	36	27	27										
Computer programmers	955	658	—	—	—	—	—	—	9	19	—	—	5	36	327	235	36	191										
Other technicians, except health, engineering, and science	593	—	—	—	16	22	91	—	—	—	111	40	127	36	1 873	2 131	115	—										

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Business services				Automotive repair and services				Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services				Professional and related services			
	Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female	Total	Male	Total	Female
Technical, sales, and administrative support occupations—Con.																												
Sales occupations	3 755	1 433	1 213	125	244	298	157	125	581	2 033	5 021	3 006	6 866	1 746	4 462	1 110	1 746	4 462	1 110	1 746	4 462	1 110	1 746	4 462	1 110	1 746	4 462	1 110
Supervisors and proprietors, sales occupations	217	252	27	90	45	49	12	9	24	55	90	125	168	114	80	13	114	80	13	114	80	13	114	80	13	114	80	13
Sales representatives, finance and business services	201	235	14	84	45	3	533	13	17	13	6	100	156	114	80	13	114	80	13	114	80	13	114	80	13	114	80	13
Sales representatives, commodities, except retail	16	17	106	70	4	3	75	4	254	454	19	220	12	257	93	5	257	93	5	257	93	5	257	93	5	257	93	5
Sales workers, retail and personal services	2 764	927	1 080	36	89	500	181	36	292	1 524	4 905	2 654	5 857	1 12	4 218	1 291	1 12	4 218	1 291	1 12	4 218	1 291	1 12	4 218	1 291	1 12	4 218	1 291
Cashiers	714	305	570	6	6	211	181	6	211	1 456	3 850	1 792	4 508	1 116	2 171	1 16	1 116	2 171	1 16	1 116	2 171	1 16	1 116	2 171	1 16	1 116	2 171	1 16
Other sales occupations, retail and personal services	646	622	510	30	83	68	22	30	81	—	7	7	16	72	71	—	72	71	—	72	71	—	72	71	—	72	71	—
Sales related occupations	46	—	—	4	—	—	—	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	10 192	614	2 922	157	298	1 572	400	157	2 930	7 516	5 095	1 407	4 880	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554
Supervisors, administrative support occupations	533	31	34	88	49	12	88	12	2 930	7 516	5 095	1 407	4 880	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554	111 001	14 554
Computer equipment operators	782	890	6	14	3	533	13	6	17	17	18	5	28	567	996	567	996	567	996	567	996	567	996	567	996	567	996	567
Secretaries, stenographers, and typists	433	6	838	18	3	75	4	18	903	903	804	69	1 365	873	44 042	873	44 042	873	44 042	873	44 042	873	44 042	873	44 042	873	44 042	873
Stenographers and typists	286	6	177	7	6	403	7	7	786	117	149	254	254	403	35	403	35	403	35	403	35	403	35	403	35	403	35	403
Receptionists	72	18	159	7	7	181	13	7	71	376	46	31	537	513	1 571	513	1 571	513	1 571	513	1 571	513	1 571	513	1 571	513	1 571	513
Other information clerks	318	52	28	26	13	22	26	26	4	21	41	53	69	134	1 044	134	1 044	134	1 044	134	1 044	134	1 044	134	1 044	134	1 044	134
File clerks	318	52	28	26	13	22	26	26	4	21	41	53	69	134	1 044	134	1 044	134	1 044	134	1 044	134	1 044	134	1 044	134	1 044	134
Other records processing occupations, except financial	265	83	828	14	10	400	14	10	288	700	23	55	862	1 012	7 150	1 012	7 150	1 012	7 150	1 012	7 150	1 012	7 150	1 012	7 150	1 012	7 150	1 012
Bookkeepers, accounting, and auditing clerks	388	14	19	5	5	15	5	5	35	78	16	47	51	88	933	88	933	88	933	88	933	88	933	88	933	88	933	88
Payroll and timekeeping clerks	45	322	78	14	10	21	14	10	14	32	6	46	4	119	1 696	46	1 696	46	1 696	46	1 696	46	1 696	46	1 696	46	1 696	46
Other financial records processing occupations	58	14	13	35	5	15	35	5	88	744	18	55	160	119	1 696	119	1 696	119	1 696	119	1 696	119	1 696	119	1 696	119	1 696	119
Telephone operators	161	33	22	41	41	4	21	41	21	43	121	55	109	247	929	247	929	247	929	247	929	247	929	247	929	247	929	247
Mail and message distributing occupations	2 049	33	36	34	6	6	34	6	18	27	—	109	162	170	353	170	353	170	353	170	353	170	353	170	353	170	353	170
Production coordinators and expeditors	219	345	28	4	43	14	4	4	55	—	80	72	168	314	77	314	77	314	77	314	77	314	77	314	77	314	77	314
Traffic, shipping, and receiving clerks	452	193	28	4	24	39	24	4	107	24	76	76	22	122	931	122	931	122	931	122	931	122	931	122	931	122	931	122
Stock and inventory clerks	990	77	63	79	9	24	79	9	38	106	106	77	111	309	975	309	975	309	975	309	975	309	975	309	975	309	975	309
Other material recording, scheduling, and distributing clerks	180	235	41	16	20	41	16	20	18	48	26	48	13	27	142	27	142	27	142	27	142	27	142	27	142	27	142	27
Adjusters and investigators	666	55	47	16	20	41	16	20	18	48	26	48	13	27	142	27	142	27	142	27	142	27	142	27	142	27	142	27
Data-entry keyers	287	3 319	5	34	41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other administrative support occupations	1 737	8 516	111	493	41	203	41	203	418	684	839	410	1 001	4 635	25 322	4 635	25 322	4 635	25 322	4 635	25 322	4 635	25 322	4 635	25 322	4 635	25 322	4 635
Service occupations	39 267	819	157	87	340	87	340	87	23 713	47 532	9 455	20 991	16 437	62 947	158 392	62 947	158 392	62 947	158 392	62 947	158 392	62 947	158 392	62 947	158 392	62 947	158 392	62 947
Private household occupations	18 592	84	31	—	20	—	—	—	819	234	3 028	2 197	1 118	3 839	966	3 839	966	3 839	966	3 839	966	3 839	966	3 839	966	3 839	966	3 839
Protective service occupations	18 150	75	31	—	20	—	—	—	798	232	121	2 160	1 103	3 756	946	3 756	946	3 756	946	3 756	946	3 756	946	3 756	946	3 756	946	3 756
Guards	150	9	9	—	9	—	—	—	21	2	62	37	15	83	20	83	20	83	20	83	20	83	20	83	20	83	20	83
Other protective service occupations	20 675	13 919	126	87	320	87	320	87	22 894	47 298	19 915	18 794	15 319	59 108	157 426	59 108	157 426	59 108	157 426	59 108	157 426	59 108	157 426	59 108	157 426	59 108	157 426	59 108
Service occupations, except protective and household	259	439	6	30	17	30	17	30	11 980	11 294	104	5 034	7 908	8 635	27 376	8 635	27 376	8 635	27 376	8 635	27 376	8 635	27 376	8 635	27 376	8 635	27 376	8 635
Food preparation and service occupation	165	2 047	6	—	—	—	—	—	31	281	2 583	34	89	10 469	81 788	10 469	81 788	10 469	81 788	10 469	81 788	10 469	81 788	10 469	81 788	10 469	81 788	10 469
Health service occupations	19 783	10 210	97	49	292	49	292	49	7 599	28 977	2 421	5 608	1 576	35 408	20 200	35 408	20 200	35 408	20 200	35 408	20 200	35 408	20 200	35 408	20 200	35 408	20 200	35 408
Cleaning and building service occupations, except household	468	1 223	23	8	22	8	22	8	3 284	6 726	3 652	8 118	5 746	4 596	28 062	4 596	28 062	4 596	28 062	4 596	28 062	4 596	28 062	4 596	28 062	4 596	28 062	4 596
Personal service occupations	443	63	6	11	105	11	105	11	1 110	144	2 398	5 877	691	3 588	826	3 588	826	3 588	826	3 588	826	3 588	826	3 588	826	3 588	826	3 588
Farming, forestry, and fishing occupations	5 271	694	534	771	10 690	771	10 690	771	1 900	145	1 905	3 094	379	12 559	1 944	12 559	1 944	12 559	1 944	12 559	1 944	12 559	1 944	12 559	1 944	12 559	1 944	12 559
Precision production, craft, and repair occupations	2 011	32																										

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Business services		Automotive repair and services		Other repair services		Hotels and lodging places		Other personal services, including private household		Entertainment and recreation services		Professional and related services	
	Male		Male		Male		Male		Male		Male		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.														
Extrusive occupations	34	559	609	38	1 935	388	301	86	940	1 806	444	223	25	5
Precision production occupations	1 082	259	171	6	79	12	38	42	184	181	148	92	2 596	1 229
Supervisors, production occupations	461	21	79	—	584	—	16	—	24	4	71	—	372	177
Precision metalworking occupations	324	—	—	—	—	—	—	—	—	—	—	—	497	59
Tool and die makers	16	—	6	—	34	—	7	—	7	4	68	—	35	26
Machinists	190	—	52	—	161	—	7	—	12	—	—	—	141	138
Sheet metal workers	36	—	8	—	31	—	—	—	—	—	—	—	12	—
Other precision metal workers	21	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	82	21	13	—	358	5	9	—	5	—	3	—	143	33
Precision food production occupations	28	110	243	25	691	221	14	6	699	1 595	33	76	75	128
Precision inspectors, testers, and related workers	—	5	—	—	11	—	39	—	6	20	40	42	87	124
Plant and system operators	58	33	82	—	20	—	—	—	—	—	—	—	51	6
Other precision production occupations	103	7	28	7	544	146	194	2	22	6	118	11	422	10
Operators, fabricators, and laborers	108	124	6	—	—	—	—	—	5	—	—	—	1 092	725
Machine operators, assemblers, and inspectors	16 982	8 980	17 757	1 946	8 339	665	2 314	1 728	9 532	11 789	4 738	956	16 683	10 218
Machine operators and tenders, except precision	4 584	5 680	3 701	301	5 872	569	631	285	5 027	10 397	1 280	429	4 268	4 683
Metalworking and plastic working machine operators	2 942	4 151	2 948	186	916	253	565	1 245	4 913	9 830	1 145	358	2 890	3 862
Fabricating machine operators, n.e.c.	154	79	128	7	302	21	2	—	—	31	28	—	181	63
Metal and plastic processing and woodworking machine operators	11	—	5	—	8	—	—	—	—	—	—	—	—	—
Printing machine operators	102	64	19	—	40	—	15	19	18	68	—	—	40	21
Textile machine operators	204	343	—	—	—	—	—	4	8	50	20	13	358	160
Textile sewing machine operators	13	8	2	—	27	17	—	—	30	15	—	—	10	20
Laundry and dry cleaning machine operators	94	18	4	9	22	60	4	10	17	579	6	21	24	144
Packaging and filling machine operators	49	19	—	—	8	8	288	1 141	3 690	4 566	7	53	719	2 436
Food processing machine operators, except food	14	147	14	—	—	—	—	—	7	—	—	—	19	13
Food, meat, and other operators	14	—	—	—	36	8	31	—	7	—	7	—	353	12
Other specified machine operators	1 252	2 282	2 463	132	181	14	68	42	991	4 309	831	158	404	447
Miscellaneous and not specified machine operators	1 049	1 191	321	33	300	75	157	29	152	205	246	113	764	546
Fabricators, assemblers, and hand working occupations	1 235	1 059	700	107	4 936	297	42	—	91	155	122	53	1 124	640
Welders and cutters	276	27	411	25	4 770	235	13	—	33	—	—	—	691	32
Solders and brazers	17	17	6	—	9	—	9	—	—	—	—	—	20	7
Heat treating occupations	557	902	257	11	143	52	14	—	54	147	81	40	396	536
Production inspectors, testers, samplers, and weighers	402	113	26	71	14	8	6	—	4	8	21	13	37	65
Garden and sodiers, except agricultural	407	470	33	8	20	19	24	40	23	412	13	18	254	181
Other production inspectors, testers, samplers, and weighers	91	215	—	2	7	7	6	—	—	29	13	—	68	131
Transportation and material moving occupations	316	255	33	6	13	12	18	40	23	383	—	18	186	50
Transportation occupations	3 769	595	4 444	464	754	10	658	127	2 022	1 39	1 206	203	5 440	3 960
Motor vehicle operators	2 984	539	4 332	457	643	10	533	107	1 960	134	1 036	188	4 822	3 915
Truck drivers	2 956	519	4 326	457	638	10	521	107	1 948	134	1 009	182	4 700	3 902
Other motor vehicle operators	2 497	402	2 231	135	589	10	189	8	1 199	73	375	91	1 942	520
Other motor vehicle operators	77	26	19	—	25	—	313	84	457	47	23	7	106	13
Other motor vehicle operators	382	91	2 076	322	24	—	12	—	292	14	611	84	2 652	3 369
Material moving equipment operators	28	20	6	7	111	—	125	20	62	5	27	6	122	13
Material moving equipment operators	785	56	112	—	—	—	—	—	—	—	10	15	618	45
Superintendents, inspectors, and related occupations	7	—	13	—	14	—	—	—	—	—	5	6	101	6
Craft, repair, and related occupations	155	—	1	—	23	—	14	6	13	—	47	—	96	—
Engineering, drafting, and design occupations	57	—	—	—	74	—	111	14	49	5	108	9	415	39
Other material moving equipment operators	566	48	98	7	—	—	—	—	—	—	—	—	—	—
Handriers, equipment cleaners, helpers, and laborers	7 929	2 705	9 612	1 181	1 713	86	1 025	316	2 483	1 253	2 252	324	6 975	1 575
Supervisors, handlers, equipment cleaners, and laborers	13	8	—	—	16	—	—	—	—	—	—	—	—	—
Helpers, craft and production	221	9	1 424	125	449	33	43	81	94	80	51	5	1 237	186
Construction laborers	312	21	13	11	50	7	98	2	31	78	84	78	959	31
Freight, stock, and material handlers	1 178	151	126	8	23	7	87	2	194	84	756	60	800	92
Gate and service station occupations, and equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Geographers	254	64	7 130	889	302	—	44	10	96	45	23	16	146	73
Hand packers and packagers	542	17	2	—	21	—	26	—	32	36	36	14	274	312
Laborers, except construction	5 409	893	917	131	852	41	727	223	1 961	732	1 282	214	3 546	934
Experienced unemployed not classified by occupation	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.									
	Health services, except hospitals					Educational services				
	Government					Private				
	Male	Female	Male	Female		Male	Female	Male	Female	
Experienced unemployed 16 years and over										
Managerial and professional specialty occupations										
Executive, administrative, and managerial occupations										
Officials and administrators, public administration										
Financial managers										
Managers, marketing, advertising, and public relations										
Administrators, education and related fields										
Managers, medicine and health										
Other specialized managers										
Managers and administrators, n.e.c.										
Self-employed										
Management related occupations										
Accountants and auditors										
Personnel, training, and labor relations specialists										
Buyers and purchasing agents										
Inspectors and compliance officers										
Other management related occupations										
Professional specialty occupations										
Engineers, architects, and surveyors										
Architects										
Engineers										
Civil engineers										
Electrical and electronic engineers										
Industrial engineers										
Mechanical engineers										
Other engineers										
Surveyors and mapping scientists										
Computer systems analysts and scientists										
Operations and systems researchers and analysts										
Mathematical scientists										
Natural scientists										
Chemists, except biochemists										
Other natural scientists										
Health diagnosing occupations										
Health assessment and treating occupations										
Registered nurses										
Other health assessment and treating occupations										
Teachers, except postsecondary										
Social scientists and urban planners										
Social and recreation workers										
Lawyers and judges										
Writers, artists, entertainers, and athletes										
Other professional specialty occupations										
Technical, sales, and administrative support occupations										
Technicians and related support occupations										
Health technologists and technicians										
Licensed practical nurses										
Other health technologists and technicians										
Engineering and science technicians										
Electrical and electronic technicians										
Industrial and mechanical engineering technicians										
Drafting and surveying technicians										
Other engineering and science technicians										
Technicians, except health, engineering, and science										
Airplane pilots and navigators										
Air traffic controllers and broadcast equipment operators										
Computer programmers										
Other technicians, except health, engineering, and science										
Public administration										
Other professional and related services										
Social services, religious and membership organizations										
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Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.										Public administration	
	Health services, except hospitals				Educational services				Social services, religious and membership organizations		Other professional and related services	
	Male		Female		Government		Private		Male	Female	Male	Female
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	96	145	177	954	288	556	288	556	773	1 416	337	641
Supervisors and proprietors, sales occupations	6	7	23	9	22	2	22	2	44	21	6	24
Supervisors, sales occupations	6	7	23	9	22	2	22	2	44	21	6	24
Salaries	—	—	—	—	—	—	—	—	—	—	—	—
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	—	—	—	—	—	—	—	—	—	—	—	—
Cashiers	90	131	131	945	266	547	266	547	656	1 318	91	554
Other sales occupations, retail and personal services	7	62	72	752	31	299	31	299	—	—	24	85
Sales related occupations	83	69	59	193	235	248	235	248	656	1 090	67	469
Administrative support occupations, including clerical	837	18 105	4 159	28 524	1 868	10 995	1 868	10 995	2 304	15 659	2 388	18 291
Supervisors, administrative support occupations	6	344	81	152	38	101	38	101	143	347	263	174
Computer equipment operators	21	82	219	934	112	124	112	124	36	67	107	198
Secretaries, stenographers, and typists	45	6 175	246	9 934	91	4 750	91	4 750	197	6 973	139	10 213
Secretaries	16	5 322	132	7 227	52	3 710	52	3 710	128	5 311	107	9 165
Stenographers and typists	29	853	114	2 707	39	1 040	39	1 040	69	1 662	32	1 048
Receptionists	53	756	117	758	72	532	72	532	92	964	20	346
Other information clerks	24	149	159	238	64	151	64	151	92	440	80	440
File clerks	75	719	158	864	70	211	70	211	111	582	153	486
Other records processing occupations, except financial	25	463	812	3 944	340	932	340	932	30	159	30	119
Bookkeepers, accounting, and auditing clerks	122	1 345	117	722	94	412	94	412	166	1 327	400	2 610
Payroll and timekeeping clerks	22	58	6	119	—	31	—	31	76	178	5	18
Other financial records processing occupations	11	205	7	41	—	17	—	17	85	166	7	167
Telephone operators	10	170	32	154	6	154	6	154	18	203	7	167
Mail and message distributing occupations	140	126	187	140	110	109	110	109	185	126	385	143
Production coordinators and expeditors	7	32	33	79	6	26	6	26	33	48	33	143
Traffic, shipping, and receiving clerks	—	5	42	18	—	6	—	6	88	12	11	15
Stock and inventory clerks	40	45	208	190	153	57	153	57	63	36	29	22
Other material recording, scheduling, and distributing clerks	3	88	17	50	22	16	22	16	26	47	95	248
Adjusters and investigators	5	117	42	80	22	67	22	67	72	246	19	367
Date-entry keyers	24	87	34	280	27	197	27	197	31	160	19	367
Other administrative support occupations	204	2 139	1 642	10 482	638	3 102	638	3 102	914	3 761	646	1 639
Service occupations	8 607	61 183	18 907	24 277	6 327	6 958	6 327	6 958	9 575	23 393	992	800
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	142	43	1 281	442	573	130	573	130	478	219	254	37
Guards	135	28	1 262	437	567	130	567	130	461	219	246	37
Other protective service occupations	7	15	19	5	6	—	6	—	17	—	8	—
Service occupations, except protective and household	8 465	61 140	17 626	23 835	5 754	6 828	5 754	6 828	9 097	23 174	738	763
Food preparation and service occupations	1 627	5 379	1 278	9 609	1 094	3 068	1 094	3 068	1 743	4 204	66	135
Health service occupations	3 344	49 879	58	464	60	251	60	251	323	1 504	13	73
Cleaning and building service occupations, except household	3 220	3 915	14 768	5 691	4 181	6 114	4 181	6 114	5 028	2 180	574	225
Personal service occupations	274	1 967	1 522	8 071	419	1 895	419	1 895	2 003	15 286	85	330
Farming, forestry, and fishing occupations	252	18	1 340	225	503	88	503	88	692	297	223	123
Precision production, craft, and repair occupations	1 560	796	2 598	526	1 348	113	1 348	113	4 159	266	959	77
Mechanics and repairers	219	10	907	8	325	8	325	8	433	24	187	13
Supervisors, mechanics and repairers	—	—	40	8	14	—	14	—	8	—	5	—
Automobile mechanics, including body	50	5	256	27	82	8	82	8	68	—	5	—
Industrial machinery repairers	54	—	104	12	34	—	34	—	29	2	34	—
Electronic repairers, communications and industrial equipment	4	—	74	59	54	—	54	—	42	10	71	2
Heating, air conditioning, and refrigeration mechanics	22	—	50	—	23	—	23	—	30	—	5	—
Other mechanics and repairers	89	5	383	49	383	—	383	—	256	12	67	—
Construction trades	291	17	1 467	212	803	43	803	43	3 256	132	459	15
Supervisors, construction occupations	38	—	61	—	46	—	46	—	95	—	88	—
Carpenters	83	—	419	18	251	8	251	8	1 210	41	179	9
Electricians	8	—	165	17	151	—	151	—	373	2	59	—
Painters, construction and maintenance	129	11	575	119	217	31	217	31	446	45	25	5
Plumbers, pipefitters, and steamfitters	18	—	120	17	63	—	63	—	476	—	45	—
Other construction trades	15	6	127	41	95	4	95	4	656	44	63	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Professional and related services—Con.									
		Health services, except hospitals				Educational services				Social services, religious and membership organizations	
		Government		Private		Other professional and related services		Public administration			
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Extrusive occupations											
Precision production occupations	1 050	219	159	5	5	220	57	470	110	34	396
Supervisors, production occupations	50	36	20	6	6	91	43	293	49	1 312	105
Precision metalworking occupations	12	81	25	26	6	209	10	404	20	483	83
Tool and die makers	12	—	—	5	—	2	—	28	2	11	—
Machinists	12	66	14	8	—	12	10	53	2	271	41
Sheet metal workers	—	—	—	—	—	114	—	16	—	67	19
Other precision metal workers	—	15	11	7	6	81	—	36	16	134	23
Precision textile, apparel, and furnishings machine workers	8	18	18	20	15	34	41	34	4	65	113
Precision food production occupations	15	24	74	26	18	20	—	26	—	49	16
Precision inspectors, testers, and related workers	19	10	—	—	—	7	6	34	—	191	6
Plant and system operators	961	48	13	23	12	68	10	65	—	86	47
Other precision production occupations	—	6	—	33	—	41	—	9	7	—	—
Operators, fabricators, and laborers											
Machine operators, assemblers, and inspectors	876	3 828	3 151	1 626	791	5 719	1 937	2 459	512	18 207	3 799
Machine operators, except precision	251	739	379	501	219	1 121	877	659	297	2 792	1 348
Metalworking and plastic machine operators	225	527	280	303	171	583	353	285	116	1 804	791
Metallurgical machine operators, etc.	13	10	19	13	6	126	13	20	14	91	24
Fabricating machine operators	5	—	—	—	—	—	—	—	—	11	—
Metal and plastic processing and woodworking machine operators	5	2	2	8	—	7	8	9	5	76	20
Printing machine operators	16	167	82	62	28	61	20	10	7	217	88
Textile machine operators	—	—	—	—	—	—	—	—	—	6	—
Textile sewing machine operators	—	6	26	11	6	5	50	2	—	22	23
Laundry and dry cleaning machine operators	109	28	26	23	19	7	74	7	—	36	91
Packaging and filling machine operators	5	7	—	6	6	7	3	—	—	14	18
Furnace, lab, and oven operators, except food	15	81	—	55	12	11	—	3	—	243	14
Other specified machine operators	37	102	68	47	37	115	51	45	48	335	116
Miscellaneous and not specified machine operators	20	124	49	74	57	244	127	186	42	751	321
Fabricators, assemblers, and hand working occupations	15	172	86	195	40	500	208	212	167	730	338
Welders and cutters	—	104	28	127	—	322	—	135	—	413	83
Solders and brazers	—	—	—	—	—	—	—	—	—	—	—
Assemblers	15	61	43	57	23	167	199	69	7	264	176
Hand working occupations	—	7	13	11	17	11	9	8	19	53	79
Production inspectors, testers, samplers, and weighers	11	40	13	3	8	38	116	162	14	258	219
Graders and sorters, except agricultural	6	40	13	1	8	21	100	—	—	91	133
Other production inspectors, testers, samplers, and weighers	5	—	—	2	—	17	16	162	14	167	86
Transportation and material moving occupations											
Transportation occupations	352	1 892	2 485	572	447	1 779	616	342	42	4 513	574
Motor vehicle operators	242	1 848	2 474	566	447	1 381	586	196	42	3 605	536
Truck drivers	350	1 861	2 474	543	447	1 351	573	154	42	3 418	523
Driver-sales workers	221	771	72	218	47	889	139	109	23	2 695	196
Other motor vehicle operators	129	23	6	22	400	19	—	19	19	17	12
Rail and water transportation occupations	—	1 567	2 396	303	—	425	434	26	19	706	315
Material moving equipment operators	2	7	11	23	—	50	13	42	—	187	13
Supervisors, material moving equipment operators	—	24	—	6	—	398	30	146	—	908	38
Crane, hoist, and winch operators	—	9	—	—	—	—	—	—	—	19	6
Excavating, grading, and dozer machine operators	—	—	—	—	—	63	—	29	—	41	—
Other material moving equipment operators	2	14	9	2	—	50	26	35	—	155	—
Handlers, equipment cleaners, helpers, and laborers											
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	273	1 197	287	553	125	2 819	644	1 458	173	10 902	1 877
Helpers, craft and production	—	—	—	—	—	—	—	8	—	19	2
Construction laborers	19	5	18	63	4	125	26	850	82	516	48
Freight, stock, and material handlers	7	123	6	116	5	531	13	104	5	1 011	101
Garage and service station occupations, and equipment cleaners	33	220	38	62	25	319	16	19	—	868	117
Hand packers and packagers	14	64	13	23	8	15	11	16	—	343	13
Laborers, except construction	18	27	18	30	37	179	143	455	18	187	107
Laborers, except construction	182	92	186	259	46	1 650	433	—	68	7 958	1 469
Experienced unemployed not classified by occupation	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries									
	Total, all industries		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	97 639 355	41 634 645	2 913 589	522 050	1 418 642	213 384	893 316	158 962	218 097	96 540
Managerial and professional specialty occupations	22 151 641	8 954 843	144 639	27 977	18 430	5 156	8 319	2 026	52 158	11 595
Executive, administrative, and managerial occupations	10 133 551	3 070 247	53 814	12 343	13 366	3 085	5 757	1 372	10 342	3 649
Legislators, chief executives, and general administrators; public administration	45 165	11 480	-	-	-	-	-	-	-	-
Administrators and officials, public administration	290 500	97 292	-	-	-	-	-	-	-	-
Federal	104 908	30 367	-	-	-	-	-	-	-	-
State	73 378	20 324	-	-	-	-	-	-	-	-
Local	112 214	46 601	-	-	-	-	-	-	-	-
Administrators, protective services	25 884	25 884	5	-	-	-	-	-	-	-
Financial managers	403 507	126 075	775	180	346	58	103	39	128	11
Personnel and labor relations managers	214 749	76 888	1 662	413	346	75	346	32	282	97
Purchasing managers	69 982	14 801	387	96	57	-	14	-	19	-
Managers, marketing, advertising, and public relations	674 364	117 323	2 909	456	1 144	243	321	48	49	12
Administrators, education and related fields	382 589	144 904	1 111	5	36	5	6	-	503	40
Managers, medicine and health	108 477	54 948	108 477	-	-	-	-	-	19	-
Managers, properties and real estate	193 863	79 010	173	33	41	17	16	7	23	-
Postmasters and mail superintendents	31 150	13 522	-	-	-	-	-	-	-	-
Federal directors	39 811	3 433	9	-	-	-	-	-	-	-
Managers and administrators, n.e.c.	5 097 215	1 357 405	38 484	8 241	8 853	1 997	3 734	862	7 577	2 952
Self-employed	4 535 735	1 206 250	29 329	6 069	6 947	1 542	3 148	672	5 541	1 885
Management related occupations	561 480	151 155	9 155	2 172	1 906	455	586	190	1 067	365
Accountants and auditors	2 554 295	970 779	9 299	2 919	2 394	690	1 208	364	1 767	537
Underwriters	918 270	376 172	3 394	1 528	1 108	435	551	259	683	277
Other financial officers	398 442	178 356	306	59	91	10	21	4	49	2
Management analysts	115 585	29 042	294	52	43	15	-	-	116	6
Personnel, training, and labor relations specialists	410 366	192 170	2 528	612	616	114	171	33	395	136
Purchasing agents and buyers, farm products	163 017	72 074	43	2	-	-	-	-	43	2
Buyers, wholesale and retail trade except farm products	187 128	59 456	1 756	456	427	91	322	39	266	33
Purchasing agents and buyers, n.e.c.	19 568	6 462	35	3	35	7	9	2	95	24
Business and promotion agents	2 548	1 125	112	4	6	-	-	-	10	-
Construction inspectors	152 353	26 506	649	152	70	18	134	27	99	49
Inspectors and compliance officers, except construction	30 485	16 255	62	21	-	-	-	-	21	10
Management related occupations, n.e.c.	-	-	-	-	-	-	-	-	-	-
Professional specialty occupations	12 018 097	5 984 596	90 825	15 434	5 064	2 071	2 562	654	41 816	7 946
Engineers, architects, and surveyors	1 516 977	72 862	21 540	1 891	1 444	51	1 444	16	390	20
Architects	105 079	8 617	17 010	1 891	151	39	25	-	140	20
Engineers	1 382 095	63 138	3 907	242	293	12	112	16	228	20
Aerospace engineers	87 111	2 843	5	-	-	-	-	-	-	-
Metallurgical and materials engineers	2 187	1	27	19	-	-	-	-	19	13
Mining engineers	29 788	767	14	-	-	-	-	-	6	6
Petroleum engineers	56 916	2 670	35	-	-	-	-	-	7	-
Chemical engineers	9 186	5 843	3	-	-	-	-	-	-	-
Nuclear engineers	200 471	5 798	2 349	147	59	-	15	-	40	-
Civil engineers	4 481	2 384	151	2	75	-	24	2	22	-
Agricultural engineers	319 754	15 954	90	7	14	-	2	-	7	-
Electrical and electronic engineers	180 952	18 718	179	32	22	12	7	7	13	9
Industrial engineers	194 994	3 973	173	39	39	-	26	-	23	6
Mechanical engineers	15 857	230	230	-	-	-	-	-	10	-
Marine engineers and naval architects	244 892	9 406	402	35	-	-	23	7	73	-
Engineers, n.e.c.	29 743	1 087	643	46	25	-	7	-	22	-
Surveyors and mapping scientists	-	-	-	-	-	-	-	-	-	-
Mathematical and computer scientists	326 495	84 738	594	150	48	-	49	7	152	51
Computer systems analysts and scientists	200 684	44 640	310	64	34	-	26	-	17	14
Operations and systems researchers and analysts	70 900	27 076	12	-	5	-	13	-	6	-
Actuaries	10 180	36	36	-	-	-	-	-	-	-
Statisticians	29 391	14 007	154	67	9	-	10	-	25	-
Mathematical scientists, n.e.c.	6 310	1 199	30	7	-	-	-	-	16	-
Horticultural services	230 158	24 772	-	-	-	-	-	-	-	-
Forestry	87 430	21 070	-	-	-	-	-	-	-	-

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries										Agriculture, forestry, and fisheries									
	Total					Agricultural production, crops					Agricultural production, livestock					Agricultural services, except horticultural				
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Female	Forestry
Employed persons 16 years and over—Con.	307 295	60 361	20 969	2 932	1 836	392	463	83	1 477	497	2 594	698	12 292	1 066						
Managerial and professional specialty occupations—Con.	22 310	1 207	14	72	66	22	13	7	86	24	30	—	8	19						
Professional specialty occupations—Con.	100 458	19 945	271	10	68	8	—	—	15	—	7	—	70	10						
Natural scientists	8 248	1 389	28	10	10	—	23	—	15	—	—	—	434	73						
Physicists and astronomers	45 319	5 002	502	73	10	—	—	—	—	—	—	—	—	5						
Chemists, except biochemists	8 507	1 701	102	5	1 481	318	277	46	1 178	390	15	—	537	78						
Atmospheric and space scientists	23 762	5 323	6 117	1 521	1 481	318	277	46	1 178	390	15	—	78	5						
Geologists and geodesists	45 066	14 765	14 765	334	143	32	87	14	94	36	2 419	680	795	64						
Physical scientists, n.e.c.	33 880	3 079	11 533	867	112	12	56	16	27	38	93	18	139	139						
Agricultural and food scientists	19 745	7 950	129	50	16	8	7	—	68	42	—	—	10 308	756						
Biological and life scientists	443 716	75 115	29 120	3 688	109	42	316	37	28 508	3 561	152	32	24	9						
Forestry and conservation scientists	151 418	57 310	131	44	2	—	4	—	116	44	7	—	2	7						
Medical scientists	124 712	48 170	132	44	2	—	—	—	123	31	—	—	2	7						
Health diagnosing occupations	154 712	48 170	132	44	2	—	—	—	123	31	—	—	2	7						
Physicians	34 047	8 472	28 786	3 995	105	40	304	37	28 214	3 479	139	32	13	7						
Nurses	24 443	1 956	41	9	—	—	—	—	7	—	—	—	2	2						
Optometrists	7 723	2 601	21	—	—	—	—	—	9	—	—	—	—	—						
Podiatrists	21 293	1 458	782	502	41	24	72	42	538	359	6	—	—	—						
Health diagnosing practitioners, n.e.c.	1 695 436	1 214 868	461	389	24	24	33	33	323	278	29	18	86	52						
Health assessment and treating occupations	1 266 801	814 249	89	28	8	8	36	25	64	25	11	11	56	36						
Registered nurses	143 490	34 249	116	33	2	—	37	7	53	20	5	—	19	11						
Pharmacists	65 221	58 656	57	22	2	—	2	2	53	20	—	—	—	5						
Dietitians	190 234	139 051	59	22	7	—	—	—	45	15	7	7	—	—						
Therapists	29 690	11 828	21	9	—	—	—	—	17	3	—	—	—	—						
Physicians' assistants	625 794	227 044	170	42	42	—	6	—	431	247	56	—	34	—						
Physicians, postsecondary	3 658 074	2 584 974	994	475	217	53	252	149	—	—	26	—	52	10						
Teachers, except postsecondary	176 869	170 451	—	—	—	—	—	—	—	—	—	—	—	—						
Teachers, kindergarten and kindergarten	3 134 907	2 201 211	6	—	—	—	—	—	—	—	—	—	—	—						
Teachers, elementary and secondary school	31 975	22 055	—	—	—	—	—	—	—	—	—	—	—	—						
Teachers, special education	314 373	193 057	988	475	211	53	252	149	431	247	26	—	32	10						
Teachers, n.e.c.	193 456	105 010	76	28	19	5	4	2	15	6	20	20	35	9						
Counselors, educational and vocational	198 308	158 825	114	85	9	—	—	—	14	6	14	14	40	33						
Librarians, archivists, and curators	183 439	151 439	78	71	9	—	—	—	14	6	6	6	40	33						
Librarians	14 869	7 386	36	14	9	—	—	—	—	—	—	—	—	—						
Archivists and curators	212 497	79 066	515	100	108	3	19	—	82	21	20	13	270	61						
Social scientists and urban planners	93 458	27 426	330	36	94	3	19	—	68	21	13	6	122	6						
Economists	90 905	42 614	—	—	—	—	—	—	—	—	—	—	—	—						
Psychologists	2 467	990	11	—	—	—	—	—	—	—	—	—	—	—						
Sociologists	12 644	4 928	161	57	14	—	—	—	8	—	—	—	—	—						
Social scientists, n.e.c.	13 023	3 108	13	—	—	—	—	—	—	—	—	—	—	—						
Urban planners	806 567	354 802	13	7	85	—	—	—	—	—	—	—	—	—						
Social, recreation, and religious workers	442 970	287 577	126	122	33	33	41	4	36	24	6	—	137	55						
Social workers	33 802	28 083	110	26	4	—	—	—	30	24	6	—	6	6						
Recreation workers	280 965	16 170	94	10	48	—	—	—	6	—	—	—	—	—						
Clergy	48 830	27 972	13	13	6	6	—	—	—	—	—	—	—	—						
Religious workers, n.e.c.	524 806	72 312	165	33	39	—	—	—	45	6	—	—	—	—						
Lawyers and judges	497 230	67 639	165	33	39	—	—	—	45	6	—	—	—	—						
Lawyers	27 576	4 673	15	5	2	—	—	—	—	—	—	—	—	—						
Judges	308 736	548 835	5 423	5 625	2 042	1 462	1 167	314	10 111	3 144	1 488	474	447	161						
Writers, artists, entertainers, and athletes	44 032	19 524	24	10	2	—	—	—	14	—	—	—	—	—						
Authors	48 065	17 974	96	55	6	—	—	—	18	6	16	6	2	2						
Technical writers	325 276	160 648	3 205	1 808	1 787	1 361	—	—	61	38	1 231	384	49	32						
Designers	128 809	38 971	50	12	—	—	—	—	29	2	7	—	80	12						
Musicians and composers	56 690	18 576	21	9	—	—	—	—	6	6	—	—	—	—						
Actors and directors	146 144	70 042	306	131	40	25	7	7	56	33	129	37	6	—						
Painters, sculptors, craft-artists, and artist printmakers	90 373	20 769	53	—	—	—	—	—	9	—	—	—	—	—						
Photographers	11 552	8 683	—	—	—	—	—	—	—	—	—	—	—	—						
Dancers	45 821	18 499	2 947	1 069	58	—	—	—	2 214	842	—	—	29	—						
Artists, performers, and related workers, n.e.c.	202 846	99 352	183	115	47	7	645	198	2 214	842	—	—	36	—						
Editors and reporters	115 093	55 838	527	162	55	27	53	11	161	28	12	16	159	62						
Public relations specialists	44 626	8 080	14	6	—	—	—	—	6	6	—	—	—	—						
Announcers	49 409	11 879	7 997	2 248	47	22	395	79	7 489	2 146	39	1	17	—						
Athletes																				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries									
	Total, all industries		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	29 593 506	18 971 458	130 666	94 108	35 433	26 181	17 821	13 488	40 990	31 443
Technicians and related support occupations	2 981 951	1 302 889	22 926	9 021	2 295	930	1 394	382	11 281	5 966
Health technologists and technicians	966 469	808 352	5 118	4 411	71	58	82	54	11 281	5 966
Clinical laboratory technologists and technicians	238 362	177 669	222	176	5	5	14	7	172	154
Dental hygienists	45 446	44 787	—	—	—	—	—	—	—	—
Health record technologists and technicians	14 803	13 513	11	11	—	—	—	—	11	11
Radiologic technicians	94 345	67 569	31	24	—	—	—	—	31	24
Licensed practical nurses	424 960	410 679	83	67	29	29	68	47	54	38
Health technologists and technicians, n.e.c.	148 553	94 135	4 771	4 133	37	29	68	47	4 659	4 050
Engineering and related technologists and technicians	918 639	151 088	5 496	1 433	501	227	122	37	502	297
Electrical and electronic technicians	260 959	29 687	340	128	23	11	12	9	16	16
Industrial engineering technicians	10 295	2 122	55	31	31	15	2	—	—	—
Mechanical engineering technicians	15 130	944	4	—	—	—	—	—	—	—
Engineering technicians, n.e.c.	263 987	62 161	1 436	560	252	147	89	37	348	240
Drafting occupations	319 426	52 248	2 914	572	91	28	14	—	99	22
Surveying and mapping technicians	48 842	3 926	747	142	104	26	5	—	70	19
Science technicians	185 475	56 993	6 128	2 116	921	370	905	227	3 013	1 199
Biological technicians	43 815	17 938	5 543	1 793	771	284	800	157	2 828	1 116
Chemical technicians	71 507	15 972	177	74	19	17	26	17	78	43
Science technicians, n.e.c.	70 153	23 083	408	249	131	69	79	53	107	71
Technicians, except health, engineering, and science	911 368	286 456	6 184	1 061	802	275	285	64	2 839	1 933
Airplane pilots and navigators	74 129	1 016	2 823	28	108	—	54	8	2 468	8
Air traffic controllers	40 131	5 922	—	—	—	—	—	—	—	—
Broadcast equipment operators	69 818	30 437	386	149	—	—	—	—	3	3
Computer programmers	313 179	97 354	574	214	114	68	24	12	134	52
Tool programmers, numerical control	8 426	2 197	28	20	5	5	8	—	15	15
Legal assistants	76 392	52 730	80	54	6	—	—	—	—	—
Technicians, n.e.c.	329 293	96 780	2 293	596	569	196	192	39	219	118
Sales occupations	9 760 157	4 671 493	18 398	6 996	8 342	4 178	2 253	625	2 289	503
Supervisors and proprietors, sales occupations	1 540 786	429 129	1 212	263	283	53	127	41	213	74
Salaried	1 096 130	304 712	900	145	222	31	157	31	133	20
Self-employed	444 656	124 417	312	118	61	18	30	10	80	54
Sales representatives, finance and business services	1 802 715	633 460	5 419	1 254	54	20	15	3	1 855	307
Insurance sales occupations	558 225	140 717	—	—	—	—	—	—	—	—
Real estate sales occupations	644 132	289 972	254	34	28	—	15	3	36	6
Securities and financial services sales occupations	130 551	24 146	—	—	—	—	—	—	—	—
Advertising and related sales occupations	110 001	45 450	56	24	26	—	—	—	12	—
Sales occupations, other business services	359 806	133 175	5 109	1 196	—	—	—	—	1 807	301
Sales representatives, commodities, except retail	1 268 214	179 037	9 213	3 672	6 731	3 138	1 749	399	—	—
Sales engineers	43 502	1 397	12	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	1 224 712	177 640	9 201	3 672	6 731	3 138	1 749	399	—	—
Sales workers, retail and personal services	5 122 504	3 416 189	2 430	1 782	1 252	956	259	176	202	116
Sales workers, commodities	3 013 062	1 728 125	114	10	66	2	9	—	24	—
Sales counter clerks	89 600	65 739	79	6	41	6	29	—	—	—
Cashiers	1 716 318	1 428 066	1 632	1 415	1 009	868	180	161	135	107
Street and door-to-door sales workers	205 244	161 279	505	316	89	64	36	15	39	5
News vendors	98 280	32 980	100	35	47	16	3	—	4	4
Sales related occupations	25 938	13 678	124	25	22	13	73	6	19	6
Demonstrators, promoters and models, sales	11 165	8 647	19	13	13	—	6	—	—	—
Auctioneers	6 799	974	90	6	9	—	67	—	14	6
Sales support occupations, n.e.c.	7 974	4 037	15	—	—	—	—	—	5	—
Administrative support occupations, including clerical	16 851 398	12 997 076	89 342	78 091	24 796	21 073	14 174	12 481	27 420	24 974
Supervisors, administrative support occupations	1 056 710	497 668	3 167	1 598	827	395	345	175	783	391
Supervisors, general office	631 337	354 410	2 213	1 121	461	283	238	151	315	169
Supervisors, computer equipment operators	42 142	12 392	47	12	2	—	2	—	21	5
Supervisors, financial records processing	157 409	77 172	379	212	144	82	37	22	68	41
Chief communications operators	66 765	22 898	23	—	—	—	12	—	6	—
Supervisors; distribution, scheduling, and adjusting clerks	159 057	30 796	505	81	222	30	56	—	181	15
Computer equipment operators	408 475	241 155	1 279	937	344	255	311	227	206	157
Computer operators	384 392	226 354	1 205	880	339	250	292	219	245	132
Peripheral equipment operators	24 083	14 801	74	57	5	5	19	8	25	25
Forestry	16 256	10 612	—	—	—	—	—	—	—	—
Horticultural services	16 611	10 237	—	—	—	—	—	—	—	—
Agricultural services, except horticultural	40 990	31 443	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—
Female	1 142	—	—	—	—	—	—	—	—	—
Total	16 256	10 612	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries																							
	Total, all industries				Agriculture, crops				Agriculture, livestock				Agriculture, except horticultural				Horticultural services				Forestry			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female				
Employed persons 16 years and over—Con.																								
Technical, sales, and administrative support occupations—Con.																								
Administrative support occupations, including clerical—Con.																								
Secretaries, stenographers, and typists	4 656 955	4 579 938	27 673	27 240	7 178	7 039	3 802	3 727	7 253	7 187	4 119	4 198												
Secretaries	3 870 382	3 823 248	24 310	23 953	6 816	6 691	3 588	3 513	6 820	6 761	3 953	2 254												
Stenographers	535 177	527 849	3 353	3 149	210	193	13	13	10	10	93	93												
Typists	700 588	678 849	3 208	3 138	342	334	201	201	423	416	166	1 851												
Information clerks	894 178	763 561	9 995	9 679	449	428	234	230	8 306	8 122	382	570												
Information clerks	134 002	104 362	92	72	27	27	—	—	49	39	—	16												
Interviewers	59 217	51 736	71	31	7	—	6	6	27	11	—	31												
Hotel clerks	516 498	487 861	9 313	9 180	344	344	191	191	7 999	7 906	271	456												
Receptionists	88 012	65 262	519	376	71	53	37	33	166	166	86	67												
Information clerks, n.e.c.	965 107	745 372	1 881	1 571	477	371	155	115	373	307	128	624												
Records processing occupations, except financial	13 532	10 521	7	7	—	—	—	—	2	2	—	—												
Classified-ad clerks	317 309	202 921	44	31	21	15	7	7	14	14	2	2												
Order clerks	587 449	521 741	587	449	305	232	42	34	131	85	69	23												
Personnel clerks, except payroll and timekeeping	75 231	59 721	539	521	54	54	6	—	15	8	9	458												
Billing clerks	140 731	114 324	13	10	3	—	—	—	5	5	—	5												
Library clerks	277 592	221 484	532	494	61	53	74	64	200	187	43	144												
File clerks	127 367	107 838	119	59	28	—	26	17	6	6	—	29												
Records clerks	2 254 084	1 991 619	26 745	24 620	9 944	9 093	6 853	6 402	5 787	5 435	2 377	1 016												
Financial records processing occupations	827 890	640 233	25 071	23 203	9 314	8 538	6 666	6 233	5 115	5 115	2 356	939												
Bookkeepers, accounting, and auditing clerks	159 292	132 622	1 142	1 010	490	421	131	122	205	189	73	816												
Payroll and timekeeping clerks	129 380	115 020	382	361	115	115	35	33	123	118	83	188												
Billing clerks	85 855	58 731	125	24	24	18	7	—	14	6	—	12												
Cost and rate clerks	51 667	45 013	25	22	1	—	14	14	7	7	—	18												
Billing, posting, and calculating machine operators	58 671	38 462	105	93	27	22	4	—	22	22	—	3												
Duplicating, mail, and other office machine operators	18 822	11 484	41	38	—	—	—	—	—	—	—	39												
Duplicating machine operators	7 052	4 390	5	—	—	—	—	—	—	—	—	30												
Mail preparing and paper handling machine operators	32 797	22 588	59	50	27	22	4	—	22	22	—	6												
Office machine operators, n.e.c.	308 690	276 148	190	173	41	34	23	23	91	81	19	16												
Communications equipment operators	292 165	265 938	164	156	29	29	19	19	10	73	19	16												
Telephone operators	7 604	2 711	15	13	5	5	—	—	8	8	—	—												
Telegraphers	8 921	7 499	11	4	7	—	4	4	—	—	—	—												
Communications equipment operators, n.e.c.	773 826	229 096	584	295	224	97	39	18	89	26	7	127												
Mail and message distributing occupations	267 035	95 511	—	—	—	—	—	—	—	—	—	—												
Postal clerks, except mail carriers	256 593	33 179	352	216	120	65	13	5	45	22	—	—												
Mail carriers, postal service	167 973	79 425	232	79	104	32	26	13	35	7	13	13												
Mail clerks, except postal service	82 225	20 981	—	—	—	—	—	—	—	—	—	—												
Messengers	1 662 256	571 900	4 548	2 027	1 751	795	666	321	996	443	114	651												
Material recording, scheduling, and distributing clerks	94 820	29 536	238	71	85	12	19	12	89	21	12	288												
Dispatchers	254 625	112 530	238	255	67	43	19	28	57	40	12	75												
Production coordinators	481 958	113 554	1 302	492	697	123	178	45	230	80	36	253												
Traffic, shipping, and receiving clerks	570 906	198 345	1 132	517	395	171	108	75	219	78	32	133												
Stock and inventory clerks	41 407	4 239	—	—	—	—	—	—	—	—	—	—												
Mail readers	72 040	26 348	1 148	646	295	206	257	151	331	204	34	75												
Warehousemen, measurers, and checkers	2 542	1 157	50	17	2	2	46	15	43	16	—	6												
Expeditors	106 146	57 242	112	53	33	14	15	7	—	—	7	—												
Material recording, scheduling, and distributing clerks, n.e.c.	37 802	28 308	56	27	21	15	—	—	27	4	—	8												
Adjusters and investigators	515 666	321 234	1 196	317	318	69	211	26	404	149	17	168												
Insurance adjusters, examiners, and investigators	163 586	98 407	—	—	—	—	—	—	—	—	—	51												
Investigators and adjusters, except insurance	243 616	151 951	937	200	273	53	129	3	320	87	9	43												
Eligibility clerks, social welfare	24 128	19 744	52	42	10	—	—	—	34	34	8	—												
Bill and account collectors	84 336	51 132	207	75	35	16	82	23	50	12	28	8												
Miscellaneous administrative support occupations	3 296 780	2 741 523	11 959	9 541	3 216	2 475	1 531	1 217	3 085	2 654	1 006	1 896												
General office clerks	648 934	353 251	9 576	7 788	2 631	2 002	1 237	948	2 586	2 228	873	1 520												
Bank tellers	494 851	451 465	—	—	—	—	—	—	—	—	—	—												
Bank clerks	27 321	21 610	19	19	—	—	—	—	19	19	—	—												
Proofreaders	378 094	349 477	924	857	302	277	75	75	246	246	46	166												
Data-entry keyers	139 174	104 345	593	476	85	85	164	159	113	91	13	119												
Statistical clerks	206 695	191 564	44	44	35	35	9	9	—	—	—	91												
Teachers aides	269 811	269 811	803	357	149	76	46	26	121	70	74	221												
Administrative support occupations, n.e.c.																								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Total, all industries		Agriculture, forestry, and fisheries											
Total		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural		Horticultural services		Forestry	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
12 629 425	7 451 845	35 862	10 411	7 841	3 446	6 344	3 034	4 407	1 536	2 758	412	12 839	1 594
589 352	562 886	13 733	1 381	664	71	779	32	544	68	120	26	11 215	1 175
1 475 315	168 861	395	17	24	—	2	—	2	—	9	—	358	17
20 645	4 030	322	—	—	—	—	—	—	—	—	—	322	—
50 785	1 697	—	—	—	—	—	—	—	—	—	—	—	—
23 218	2 224	73	17	24	—	2	—	2	—	9	—	36	17
210 223	3 508	10 523	1 133	15	—	2	—	10	—	3	—	10 382	1 131
21 163	1 715	7 146	889	8	—	2	—	10	—	3	—	889	—
189 060	1 793	3 377	244	7	—	2	—	10	—	3	—	7 030	889
557 887	43 542	—	—	—	—	—	—	—	—	—	—	3 352	242
409 792	23 859	—	—	—	—	—	—	—	—	—	—	—	—
61 482	7 615	—	—	—	—	—	—	—	—	—	—	—	—
86 613	12 068	—	—	—	—	—	—	—	—	—	—	—	—
612 560	117 781	2 815	231	625	76	775	32	532	68	108	26	475	27
45 026	32 639	2 532	9	616	76	775	32	383	26	108	26	433	20
533 545	70 884	274	49	—	—	—	—	149	42	—	—	42	7
33 989	14 258	—	—	—	—	—	—	—	—	—	—	—	—
10 564 758	6 720 098	22 129	9 030	7 177	3 368	5 565	3 002	3 863	1 468	2 638	386	1 624	419
4 384 936	2 905 001	3 141	2 132	1 090	782	1 125	954	120	43	110	13	175	76
253 539	133 606	49	16	10	—	28	20	2	2	—	—	—	—
289 213	126 745	53	30	35	23	7	7	6	—	5	—	—	—
1 362 990	1 195 341	149	103	63	34	60	50	88	35	13	6	11	11
1 240 011	715 493	2 323	1 653	778	604	880	776	—	—	20	5	133	44
71 351	27 329	21	15	2	—	19	13	—	—	—	—	—	—
188 411	152 693	70	22	17	—	—	—	—	—	33	—	17	17
96 984	75 926	117	65	32	15	1	1	5	—	6	—	5	—
262 903	112 326	62	32	31	—	10	4	4	4	17	2	9	4
640 134	365 542	297	177	116	65	120	83	15	2	16	—	—	—
1 726 875	1 521 629	1 066	641	160	74	119	57	753	502	23	6	7	—
151 755	148 652	14	—	1	—	—	—	13	—	—	—	—	—
279 663	236 522	397	266	6	4	5	5	380	257	6	—	—	—
1 295 457	1 136 455	655	368	153	69	114	52	360	239	17	—	—	—
2 745 403	963 370	13 995	4 623	4 449	1 775	3 469	1 450	2 754	820	1 531	240	1 226	265
113 029	31 643	378	61	93	20	37	6	38	20	178	15	30	—
612 458	465 251	3 233	2 520	1 529	1 232	1 157	1 024	245	150	147	68	87	43
1 964 555	460 135	9 933	2 033	2 711	523	2 254	420	2 292	644	1 109	154	1 071	222
20 279	4 408	77	—	33	—	14	—	17	—	5	—	8	—
35 082	1 933	374	9	83	—	7	—	162	6	92	3	30	—
1 707 544	1 330 098	3 927	1 634	1 478	737	852	541	236	103	974	127	216	78
27 737	12 131	45	12	12	—	6	6	8	—	19	6	—	—
103 673	14 015	34	—	26	7	3	—	5	—	—	—	—	—
544 020	477 719	171	59	41	23	29	21	29	13	81	16	7	7
91 350	35 187	519	40	182	9	142	21	21	8	40	27	120	30
25 595	14 762	211	89	30	14	11	2	15	5	27	27	29	9
21 764	6 984	18	18	13	13	—	—	—	—	5	—	—	—
67 775	53 198	—	—	—	—	—	—	—	—	—	—	—	—
19 682	1 364	37	3	—	—	2	—	3	3	32	—	—	—
56 120	49 812	—	—	—	—	—	—	—	—	—	—	—	—
580 168	542 016	1 447	495	447	279	159	142	50	14	731	55	22	—
169 660	122 910	1 445	891	727	392	522	370	105	65	39	18	38	32
2 811 258	404 269	2 454 203	367 868	1 301 132	170 778	832 160	134 854	96 510	47 987	152 182	7 861	23 563	3 908
1 298 670	127 402	1 298 670	127 402	757 781	159 072	531 045	65 498	9 844	2 832	—	—	—	—
875 331	188 025	867 588	183 575	533 437	107 149	295 868	66 415	36 387	9 442	1 343	492	45	22
458 792	78 697	216 078	50 761	9 990	4 469	5 010	2 886	50 090	35 701	149 583	7 331	1 389	258
19 786	1 521	6 140	357	136	15	242	49	427	190	5 075	86	54	—
355 206	25 391	152 804	8 499	4 141	823	663	47	2 194	188	144 188	7 149	1 287	244
67 234	39 644	41 238	29 844	4 293	15	1 245	732	39 280	28 910	144 188	84	42	14
15 496	11 974	15 496	11 974	4 379	3 524	2 770	2 046	8 127	6 404	266	—	—	—
1 070	162	400	67	119	22	90	12	62	9	54	12	6	—
Mining, forestry, and fishing occupations													
Farm operators and managers													
Farm occupations, except managerial													
Related agricultural occupations													
Supervisors, related agricultural occupations													
Groundskeepers and gardeners, except farm													
Animal caretakers, except farm													
Graders and sorters, agricultural products													
Inspectors, agricultural products													

Employed persons 16 years and over—Con.

Service occupations	Private household occupations	Protective service occupations	Supervisors, protective service occupations	Supervisors, firefighting and fire prevention occupations	Supervisors, police and detectives	Supervisors, guards	Freightlifting and fire prevention occupations	Fire inspection and fire prevention occupations	Freightlifting occupations	Police and detectives	Police and detectives, public service	Sheriffs, bailiffs, and other law enforcement officers	Correctional institution officers	Guards	Crossing guards	Guards and police, except public service	Protective service occupations, n.e.c.	Service occupations, except protective and household	Food preparation and service occupations	Supervisors, food preparation and service occupations	Barbers	Waiters and waitresses	Cooks and waitresses	Short-order cooks	Food counter, fountain and related occupations	Kitchen workers, food preparation	Waiters and waitresses, assistants	Miscellaneous food preparation occupations	Health service occupations	Dental assistants	Nursing aides, except nursing	Nursing aides, orderlies, and attendants	Cleaning and building service occupations, except household	Supervisors, cleaning and building service workers	Molds and housemen	Janitors and cleaners	Elevator operators	Pest control occupations	Personal service occupations	Supervisors, personal service occupations	Barbers	Headresters and cosmetologists	Attendants, amusement and recreation facilities	Guides	Ushers	Public transportation attendants	Baggage porters and bellhops	Waitfare service aides	Child care workers, except private household	Personal service occupations, n.e.c.	Farming, forestry, and fishing occupations	Farm operators and managers	Farm occupations, except managerial	Related agricultural occupations	Supervisors, related agricultural occupations	Groundkeepers and gardeners, except farm	Animal caretakers, except farm	Grocers and sorters, agricultural products	Inspectors, agricultural products
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Agriculture, forestry, and fisheries									
	Total, all industries					Agricultural production, crops					Agricultural production, livestock					Agricultural services, except horticultural				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																				
Farming, forestry, and fishing occupations—Con.																				
Forestry and logging occupations	122 745	6 579	23 955	3 785	370	58	84	13	96	—	1 176	38	21 812	3 613	1 176	38	21 812	3 613	1 176	38
Supervisors, forestry and logging workers	7 725	249	18 636	3 363	95	41	65	11	9	—	25	—	2 039	193	25	—	2 039	193	25	—
Forestry workers, except logging	22 174	3 920	18 636	3 363	262	17	19	2	44	—	338	29	17 897	3 237	338	29	17 897	3 237	338	29
Timber cutting and logging occupations	92 846	2 410	3 175	222	262	17	19	2	44	—	813	9	1 887	105	813	9	1 887	105	813	9
Fishers, hunters, and trappers	55 720	3 571	47 912	2 345	54	—	153	42	93	12	80	—	317	15	80	—	317	15	80	—
Captains and other officers, fishing vessels	6 209	3 252	4 329	1 39	38	—	73	26	6	—	3	—	48	—	3	—	48	—	3	—
Fishers	47 509	3 123	42 633	2 149	16	—	75	16	59	12	71	—	250	15	71	—	250	15	71	—
Hunters and trappers	2 002	196	42 633	2 149	—	—	5	—	28	—	6	—	19	—	6	—	19	—	6	—
Precision production, craft, and repair occupations	12 594 175	977 950	39 174	1 795	16 149	532	6 290	505	5 772	280	6 200	176	3 091	154	6 200	176	3 091	154	6 200	176
Mechanics and repairers	3 798 598	126 003	21 740	262	11 127	116	3 279	48	3 102	—	3 279	48	1 258	39	3 279	48	1 258	39	3 279	48
Supervisors, mechanics and repairers	1 584 413	4 588	21 740	262	328	13	86	—	145	—	86	—	50	—	145	—	50	—	145	—
Mechanics and repairers, except supervisors	3 640 185	121 415	20 957	243	10 799	103	3 193	47	3 254	32	3 193	47	1 208	39	3 254	32	1 208	39	3 254	32
Vehicle and mobile equipment mechanics and repairers	1 640 512	20 033	12 528	94	7 497	61	1 938	10	1 279	10	1 938	10	94	5	1 279	10	94	5	1 279	10
Automobile mechanics	908 961	11 055	3 258	46	1 466	30	1 068	—	370	8	1 068	—	243	8	370	8	243	8	370	8
Bus, truck, and stationary engine mechanics	146 226	2 296	468	2	25	—	196	—	98	2	196	—	31	—	98	2	31	—	98	2
Aircraft engine mechanics	95 042	33 856	442	35	19	—	4	—	13	—	4	—	8	—	13	—	8	—	13	—
Small engine repairers	33 856	2 147	74	—	—	—	2	—	262	—	2	—	4	—	262	—	4	—	262	—
Automobile body and related repairers	193 023	1 303	11	—	—	—	—	—	27	—	—	—	5	—	27	—	5	—	27	—
Aircraft mechanics, except engine	15 245	1 206	643	2	224	2	1 055	10	103	—	1 055	10	106	5	103	—	106	5	103	—
Heavy equipment mechanics	149 828	44 331	5 170	29	5 170	29	528	—	698	8	528	—	165	7	698	8	165	7	698	8
Farm equipment mechanics	44 331	48 615	322	15	48	—	19	—	25	2	19	—	164	6	25	2	164	6	25	2
Industrial machinery repairers	467 613	13 932	3 356	42	1 503	26	—	—	403	—	—	—	133	—	403	—	133	—	403	—
Machinery maintenance occupations	42 798	1 496	1 29	—	—	—	—	—	36	—	—	—	28	—	36	—	28	—	36	—
Electrical and electronic equipment repairers	629 958	48 615	322	15	48	—	—	—	25	—	—	—	164	6	25	—	164	6	25	—
Electronic repairers, communications and industrial equipment	158 775	7 843	189	13	33	—	—	—	8	—	—	—	105	6	8	—	105	6	8	—
Data processing equipment repairers	46 626	3 792	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Household appliance and power tool repairers	79 856	2 308	20	—	2	—	—	—	8	—	—	—	2	—	8	—	2	—	8	—
Telephone line installers and repairers	61 103	3 075	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Telephone installers and repairers	252 469	28 765	81	2	11	—	12	—	4	—	12	—	50	—	4	—	50	—	4	—
Miscellaneous electrical and electronic equipment repairers	31 129	2 832	32	—	2	—	7	—	5	—	7	—	7	—	5	—	7	—	5	—
Heating, air conditioning, and refrigeration mechanics	143 626	1 384	178	8	64	—	38	8	55	—	38	8	13	—	55	—	13	—	55	—
Miscellaneous mechanics and repairers	769 678	35 955	4 472	84	1 658	16	666	28	1 163	13	666	28	323	18	1 163	13	323	18	1 163	13
Camera, watch, and musical instrument repairers	39 180	4 255	13	—	6	—	—	—	—	—	—	—	7	—	—	—	7	—	—	—
Locksmiths and safe repairers	18 763	1 288	8	—	—	—	—	—	—	—	—	—	8	—	—	—	8	—	—	—
Office machine repairers	38 034	1 978	14	2	5	—	2	2	—	—	2	2	7	—	—	—	7	—	—	—
Mechanical controls and valve repairers	27 609	989	24	—	—	—	—	—	15	—	—	—	—	—	15	—	—	—	—	—
Elevator installers and repairers	20 182	358	27	8	66	—	45	—	34	—	45	—	10	—	34	—	10	—	34	—
Millwrights	124 392	3 972	176	8	66	—	—	—	319	—	—	—	14	—	319	—	14	—	319	—
Specialized mechanics and repairers, n.e.c.	294 377	14 859	477	21	477	6	179	5	215	—	179	5	125	—	215	—	125	—	215	—
Not specified mechanics and repairers	207 141	8 256	1 098	53	1 098	6	440	21	793	13	440	21	131	6	793	13	131	6	793	13
Construction trades	4 247 010	87 263	9 297	431	3 286	132	1 701	93	709	38	1 701	93	1 024	81	709	38	1 024	81	709	38
Supervisors, construction occupations	741 346	12 437	1 274	36	213	8	89	—	70	—	89	—	142	—	70	—	142	—	70	—
Supervisors, brickmasons, stonemasons, and tile setters	4 654	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	32 722	230	14	—	4	—	2	—	—	—	2	—	2	—	—	—	2	—	—	—
Supervisors, electricians and power transmission installers	36 060	145	28	—	18	—	—	—	6	—	—	—	—	—	6	—	—	—	—	—
Supervisors, plumbers, pipefitters, and plasterers	10 963	146	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, painters, paperhangers, and steamfitters	16 595	94	10	—	3	—	—	—	7	—	—	—	—	—	7	—	—	—	—	—
Supervisors, n.e.c.	641 222	11 477	1 222	36	188	8	85	—	63	—	85	—	721	—	63	—	721	—	63	—
Construction trades, except supervisors	3 505 464	74 826	8 073	395	3 073	124	1 612	93	639	38	1 612	93	882	81	639	38	882	81	639	38
Brickmasons and stonemasons	165 940	1 838	195	2	77	—	26	—	4	—	26	—	86	—	4	—	86	—	4	—
Tile setters, hard and soft	29 592	1 560	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpet installers	80 672	1 338	29	19	19	19	—	—	4	—	—	—	—	—	4	—	—	—	—	—
Carpenters	1 101 536	17 136	1 780	107	1 780	28	1 168	48	243	—	1 168	48	284	—	243	—	284	—	243	—
Drywall installers	80 726	1 654	20	14	4	—	4	—	—	—	4	—	12	—	—	—	12	—	—	—
Electricians	589 071	11 906	706	4	303	2	171	2	128	—	171	2	49	—	128	—	49	—	128	—
Electrical power installers and repairers	101 896	1 705	93	15	44	15	27	—	27	—	27	—	7	—	27	—	7	—	27	—
Painters, construction and maintenance	362 982	20 413	904	143	413	50	103	31	118	—	103	31	98	—	118	—	98	—	118	—
Paperhangers	15 958	2 838	7	—	—	—	—	—	4	—	—	—	—	—	4	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Agriculture, forestry, and fisheries									
	Total, all industries					Agriculture, forestry, and fisheries				
	Total	Female	Total	Female	Total	Female	Agricultural production, crops	Agricultural production, livestock	Agricultural services, except horticultural	Forestry
United States										
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Plasterers	25 110	406	5	43	233	—	—	10	—	—
Plumbers, pipefitters, and steamfitters	461 198	5 680	1 112	5	7	—	—	—	—	—
Concrete and terrazzo finishers	638	56 957	70	2	4	—	—	—	—	—
Glaziers	31 212	1 225	4	2	3	—	—	—	—	—
Insulation workers	48 220	1 822	9	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	5 073	1 29	62	—	17	—	—	—	—	—
Roofters	102 102	1 063	9	—	—	—	—	—	—	—
Steelmetal duct installers	26 285	356	33	—	18	—	—	—	—	—
Structural metal workers	76 584	966	59	7	26	—	—	—	—	—
Drillers, earth	20 702	2 695	513	30	119	—	—	—	—	—
Construction trades, n.e.c.	123 548	6 620	802	61	102	—	—	—	—	—
Extraction occupations	292 695	1 886	384	12	48	—	—	—	—	—
Supervisors, extractive occupations	80 535	1 662	76	—	—	—	—	—	—	—
Drillers, oil well	68 466	862	17	—	3	—	—	—	—	—
Explosives workers	9 778	2 463	191	14	22	—	—	—	—	—
Mining machine operators	84 997	2 463	191	14	22	—	—	—	—	—
Mining occupations, n.e.c.	48 919	1 301	134	35	29	—	—	—	—	—
Precision production occupations	4 255 872	758 064	7 335	1 041	1 654	277	364	—	—	—
Supervisors, production occupations	1 838 155	270 250	4 608	378	1 012	108	55	—	—	—
Precision manufacturing occupations	987 253	59 503	881	39	308	5	130	—	—	—
Tool and die makers	187 550	3 297	36	1	29	—	—	—	—	—
Precision assemblers, metal	22 091	5 383	2	—	2	—	—	—	—	—
Mechanists	511 469	23 694	673	24	241	2	116	—	—	—
Boilermakers	33 000	520	16	—	1	—	—	—	—	—
Precision graders, filers, and tool sharpeners	18 959	1 123	27	—	2	—	—	—	—	—
Potters, ceramic and model makers, metal	19 354	1 841	—	—	—	—	—	—	—	—
Patternmakers and wood finishers	21 404	2 176	4	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	34 343	10 658	14	7	—	—	—	—	—	—
Engineers, metal	14 560	5 474	4	4	33	3	7	—	—	—
Sheet metal workers	122 273	4 786	105	3	—	—	—	—	—	—
Miscellaneous precision metal workers	2 250	551	—	—	—	—	—	—	—	—
Precision woodworking occupations	110 356	14 942	18	—	—	—	—	—	—	—
Patternmakers and model makers, wood	4 390	128	3	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	71 905	5 238	2	—	—	—	—	—	—	—
Furniture and wood finishers	29 422	8 498	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	4 639	1 078	13	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	261 346	142 851	115	65	57	45	10	—	—	—
Dressmakers	96 815	22 644	73	59	45	43	8	—	—	—
Tailors	57 515	13 551	—	—	2	—	—	—	—	—
Upholsterers	65 120	8 834	14	2	12	—	—	—	—	—
Shoe repairers	29 752	1 976	4	2	—	—	—	—	—	—
Apparel and fabric patternmakers	3 861	5 294	22	2	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	8 283	1 976	—	—	—	—	—	—	—	—
Precision workers, assorted materials	306 432	141 831	72	20	28	18	7	—	—	—
Hand molders and shapers, except jewelers	34 262	4 778	—	—	—	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	8 854	2 005	—	—	—	—	—	—	—	—
Optical goods workers	44 836	18 058	8	2	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	47 012	15 076	22	8	8	—	—	—	—	—
Bookbinders	28 221	15 803	9	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	104 496	79 456	10	10	10	10	—	—	—	—
Miscellaneous precision workers, n.e.c.	38 751	6 655	23	—	—	—	—	—	—	—
Precision food production occupations	411 885	92 112	1 059	521	126	99	298	—	—	—
Butchers and meat cutters	277 568	38 478	836	373	17	3	479	—	—	—
Bakers	110 147	44 821	100	39	52	37	13	—	—	—
Food bottlers	24 170	8 813	123	89	57	57	25	—	—	—
Precision inspectors, testers, and related workers	96 691	27 545	72	11	18	—	—	—	—	—
Inspectors, testers, and graders	25 442	25 442	66	11	—	—	—	—	—	—
Adjusters and calibrators	3 094	2 102	6	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Total, all industries				Agriculture, forestry, and fisheries											
Total				Total		Total		Total		Total		Total		Total	
Female				Female		Female		Female		Female		Female		Female	
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Plant and system operators—Con.															
Water and sewage treatment plant operators															
Power plant operators															
Stationary engineers															
Miscellaneous plant and system operators															
Operators, fabricators, and laborers															
Machine operators, assemblers, and inspectors															
Machine operators and tenders, except precision															
Metalworking and plastic working machine operators															
Lathe and turning machine set-up operators															
Lathe and turning machine operators															
Milling and planing machine operators															
Punching and stamping press machine operators															
Rolling machine operators															
Drilling and boring machine operators															
Grinding, abrading, buffing, and polishing machine operators															
Forging machine operators															
Numerical control machine operators															
Miscellaneous metal, plastic, stone, and glass working machine operators															
Fabricating machine operators, n.e.c.															
Metal and plastic processing machine operators															
Molding and casting machine operators															
Metal plating machine operators															
Heat treating equipment operators															
Miscellaneous metal and plastic processing machine operators															
Woodworking machine operators															
Wood lathe, roofing, and planing machine operators															
Sawing machine operators															
Shaping and joining machine operators															
Nailing and tacking machine operators															
Miscellaneous woodworking machine operators															
Printing machine operators															
Printing machine operators															
Photoengravers and lithographers															
Typesetters and compositors															
Miscellaneous printing machine operators															
Textile, apparel, and furnishings machine operators															
Winding and twisting machine operators															
Knitting, looping, taping, and weaving machine operators															
Textile cutting machine operators															
Textile sewing machine operators															
Shoe machine operators															
Pressing machine operators															
Laundering and dry cleaning machine operators															
Miscellaneous textile machine operators															
Machine operators, assorted materials															
Cementing and gluing machine operators															
Packaging and filling machine operators															
Extruding and forming machine operators															
Mixing and blending machine operators															
Separating, filtering, and clarifying machine operators															
Compressing and compacting machine operators															
Painting and paint spraying machine operators															
Roasting and baking machine operators, food															
Washing, cleaning, and picking machine operators															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

United States

Employed persons 16 years and over—Con.											
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators, tenders, and inspectors—Con.											
Machine operators, assorted materials—Con.											
Machine operators, not specified											
Fabricators, assemblers, and hand working occupations											
Welders and cutters											
Solders and brazers											
Assemblers											
Hand cutting and trimming occupations											
Hand molding, casting, and forming occupations											
Hand painting, coating, and decorating occupations											
Hand engraving and printing occupations											
Hand grinding and polishing occupations											
Miscellaneous hand working occupations											
Production inspectors, testers, samplers, and weighers											
Production inspectors, checkers, and examiners											
Production testers											
Production samplers and weighers											
Graders and sorters, except agricultural											
Transportation and material moving occupations											
Motor vehicle operators											
Supervisors, motor vehicle operators											
Truck drivers, heavy											
Truck drivers, light											
Driver-sales workers											
Bus drivers											
Tractor drivers and chauffeurs											
Parking lot attendants											
Motor transportation occupations, n.e.c.											
Rail transportation occupations											
Railroad conductors and yardmasters											
Locomotive operating occupations											
Railroad brake, signal, and switch operators											
Rail vehicle operators, n.e.c.											
Water transportation occupations											
Ship captains and mates, except fishing boats											
Sailors and deckhands											
Marine engineers											
Bridges, lock, and lighthouse tenders											
Material moving equipment operators											
Supervisors, material moving equipment operators											
Operating engineers											
Longshore equipment operators											
Hoist and winch operators											
Crane and tower operators											
Excavating and loading machine operators											
Grader, dozer, and scraper operators											
Industrial truck and tractor equipment operators											
Miscellaneous material moving equipment operators											

Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
30 402	18 254	371	141	77	19	23	5	234	117	24	6	275	19	275	19
144 071	6 711	655	48	165	17	49	—	145	7	9	5	20	20	20	20
3 909	3 909	358	38	48	9	148	2	119	27	30	6	6	6	6	6
189 654	53 592	1 922	353	407	161	284	124	295	149	643	55	215	215	215	215
13 734	1 238	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44 866	—	27	9	—	—	3	3	8	6	10	6	6	6	6	6
639 837	208 675	3 163	889	905	194	918	403	712	174	294	44	239	27	239	27
418 521	1 273 942	5 976	1 185	1 931	307	1 337	395	1 242	288	820	81	466	42	466	42
822 438	5 104	5 104	1 010	2 204	233	1 323	459	664	126	288	57	206	27	206	27
39 242	2 856	2 856	9	1 628	6	517	2	302	5	123	2	112	19	112	19
23 885	8	8	9	6	6	2	2	—	—	—	—	—	—	—	—
725 779	1 679	1 679	782	469	187	695	420	284	93	130	55	45	19	45	19
15 714	5 939	267	141	33	10	59	31	8	7	19	9	2	2	2	2
16 949	74	74	16	13	—	7	—	46	16	9	—	41	8	41	8
37 664	9 925	70	8	2	—	—	—	—	—	—	—	—	—	—	—
2 000	635	2	—	—	—	—	—	—	—	—	—	—	—	—	—
2 501	715	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22 117	10 723	148	46	44	30	43	4	24	12	—	6	6	6	6	6
825 021	416 373	1 736	824	464	234	426	297	285	105	193	31	282	114	282	114
669 605	341 965	1 183	626	46	214	417	269	13	96	24	6	124	13	124	13
55 702	17 932	58	30	33	20	8	8	83	9	—	25	156	2	156	2
8 743	3 624	99	159	15	—	—	—	—	—	—	—	—	—	—	—
52 852	3 624	396	159	—	—	—	—	—	—	—	—	—	—	—	—
90 971	52 852	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4 389 412	347 880	44 069	1 801	19 271	782	9 921	409	6 413	362	5 308	143	2 152	63	2 152	63
3 017 954	281 133	33 237	1 305	15 373	602	9 032	379	4 371	217	3 011	85	925	15	925	15
31 849	1 979	80	12	—	—	35	—	13	6	12	6	—	—	—	—
38 460	373	27 061	815	12 920	373	6 819	285	3 670	109	2 426	33	835	15	835	15
510 016	1 713 930	4 190	376	817	201	1 439	73	412	61	381	34	62	62	62	62
177 373	12 846	1 055	32	254	8	608	6	98	13	80	5	7	7	7	7
373 603	171 129	185	21	108	13	18	8	142	28	102	7	21	21	21	21
174 367	19 681	642	49	274	7	76	7	7	—	4	—	—	—	—	—
33 461	2 766	18	—	—	—	—	—	—	—	—	—	—	—	—	—
3 355	161	6	—	—	—	—	—	—	—	—	—	—	—	—	—
203 230	3 197	47	6	27	—	—	—	7	7	6	6	6	6	6	6
46 130	731	6	6	—	—	—	—	—	—	—	—	—	—	—	—
1 187	7	7	—	—	—	—	—	—	—	—	—	—	—	—	—
70 933	1 084	34	—	27	—	—	—	—	—	—	—	—	—	—	—
77 351	1 084	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8 796	275	—	—	—	—	—	—	—	—	—	—	—	—	—	—
68 029	1 816	308	30	16	—	6	6	24	2	2	13	13	13	13	13
31 071	583	216	16	11	—	6	—	12	2	—	—	—	—	—	—
28 583	732	74	14	2	—	—	—	10	—	—	—	—	—	—	—
3 359	76	15	—	—	—	—	—	2	—	—	—	—	—	—	—
5 016	425	3	—	—	—	—	—	—	—	—	—	—	—	—	—
1 100 199	61 734	10 477	460	3 835	180	883	30	2 011	145	2 295	58	1 208	42	1 208	42
29 444	1 191	49	5	7	—	6	—	8	5	15	—	6	9	6	9
194 493	2 491	1 286	9	316	—	149	—	108	—	269	—	390	—	390	—
3 971	92	198	—	—	—	—	—	—	—	—	—	—	—	—	—
28 508	609	206	32	66	30	4	4	18	—	57	—	15	15	15	15
120 766	2 456	897	—	95	—	2	—	128	—	375	4	14	14	14	14
72 462	1 307	206	4	299	—	64	—	431	—	353	17	134	17	134	17
66 895	1 715	1 158	49	441	40	159	5	73	7	973	31	484	31	484	31
388 654	18 034	5 826	266	2 441	98	323	2	1 577	112	973	112	184	23	184	23
194 806	34 779	837	75	177	12	176	23	93	21	—	6	165	10	165	10

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Total, all industries		Agriculture, forestry, and fisheries											
Total		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural		Horticultural services		Forestry	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
4 384 943	880 183	40 865	12 357	13 032	5 015	7 165	2 776	6 788	2 077	8 682	879	2 677	633
9 853	1 521	184	—	48	—	15	—	4	—	90	—	8	—
24 804	1 380	170	9	40	6	38	3	35	—	37	—	—	—
125 983	5 406	184	23	69	—	35	8	17	—	9	—	34	10
97 697	3 629	119	8	46	—	35	8	17	—	2	—	4	—
9 492	1 579	65	15	23	—	—	—	—	—	7	—	30	10
18 794	1 198	—	—	—	—	—	—	—	—	—	—	—	—
661 411	20 019	2 205	171	728	106	232	3	134	2	757	25	297	33
108 271	19 652	366	105	59	13	53	18	47	24	127	12	37	5
1 259 182	192 687	6 473	648	2 429	255	1 155	119	1 830	174	534	52	285	27
69 719	1 922	65	5	23	—	8	—	7	—	2	—	25	—
20 135	284	56	2	9	—	—	—	—	—	2	—	—	—
651 770	136 919	792	265	367	99	80	50	206	93	99	13	31	10
99 710	30 879	522	146	133	63	90	33	144	9	40	14	54	6
417 848	22 683	5 038	230	1 897	91	977	36	1 452	67	391	25	175	11
302 606	23 923	204	2	81	—	30	—	20	2	51	—	7	—
127 425	19 318	552	125	89	44	155	29	64	14	164	8	43	12
543 230	360 597	9 707	6 532	4 813	3 345	2 537	1 709	1 433	954	313	152	210	97
1 222 178	235 680	20 820	4 742	4 656	1 246	2 915	887	3 204	907	6 600	630	1 756	449

Employed persons 16 years and over—Con.
Operators, fabricators, and laborers—Con.
Handlers, equipment cleaners, helpers, and laborers
Supervisors, handlers, equipment cleaners, and laborers.
n.e.c.
Helpers, mechanics and repairers
Helpers, construction and extractive occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations
Construction laborers
Production helpers
Freight, stock, and material handlers
Garbage collectors
Stevedores
Stock handlers and loaders
Machine feeders and oilers
Freight, stock, and material handlers, n.e.c.
Garage and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.	
Handers, equipment cleaners, helpers, and laborers	
Supervisors, handlers, equipment cleaners, and laborers,	
n.e.c.	
Helpers, mechanics and repairers	
Helpers, construction and extractive occupations	
Helpers, construction trades	
Helpers, extractive occupations	
Helpers, extractive occupations	
Construction laborers	
Production helpers	
Freight, stock, and material handlers	
Garbage collectors	
Stevedores	
Stock handlers and loaders	
Machine feeders and offbearers	
Freight, stock, and material handlers, n.e.c.	
Garage and service station related occupations	
Vehicle washers and equipment cleaners	
Hand packers and packagers	
Laborers, except construction	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Construction	
	Agriculture, forestry, and fisheries—Con.		Mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Construction					
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	65 946	7 322	1 028 178	124 173	123 313	11 846	271 140	15 252	517 099	86 198	116 626	10 877	5 759 598	479 766
Managerial and professional specialty occupations	5 846	759	163 274	20 486	16 078	1 752	19 757	1 450	115 351	16 078	12 088	1 206	529 753	56 261
Executive, administrative, and managerial occupations	2 734	384	90 296	14 093	7 351	1 028	12 549	1 025	61 245	11 118	9 151	922	393 537	46 511
Legislators, chief executives, and general administrators;	—	—	—	—	—	—	—	—	—	—	—	—	—	—
public administrators;	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	2	—	8	—	—	—	—	—	8	—	—	—	—	—
Administrators, protective services	34	9	2 759	387	285	29	272	38	1 882	250	320	70	6 760	1 430
Financial managers	27	7	2 080	327	215	24	367	35	1 237	247	261	21	5 546	939
Personnel and labor relations managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, marketing, advertising, and public relations	116	29	720	100	46	—	59	5	590	95	25	—	3 484	344
Administrators, education and related fields	3	—	2 951	75	172	—	162	—	2 270	58	347	17	10 066	765
Managers, medicine and health	—	—	85	—	2	—	7	—	70	—	6	—	473	34
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	22	—	7 340	1 018	109	13	168	15	7 035	983	28	7	2 894	708
Federal directors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	2 088	221	44 958	4 200	3 637	301	6 601	353	28 257	3 101	6 463	445	285 515	27 977
Self-employed	1 777	183	40 807	3 991	3 496	282	6 122	334	25 361	2 953	5 828	422	221 969	24 769
Management related occupations	311	—	4 151	209	141	19	479	19	2 896	148	635	23	63 526	3 208
Accountants and auditors	442	118	29 381	7 986	2 874	661	4 913	579	19 893	6 384	1 701	362	68 124	14 072
Underwriters	129	55	16 856	5 655	1 324	366	1 424	346	13 336	4 900	772	243	24 830	9 243
Other financial officers	—	—	6	—	—	—	—	—	—	—	—	—	—	—
Management analysts	27	—	1 059	264	81	5	129	20	807	231	42	8	1 755	490
Personnel, training, and labor relations specialists	10	5	457	62	45	13	23	—	330	37	59	12	1 178	143
Purchasing agents and buyers, farm products	129	33	4 439	989	771	139	736	84	2 578	709	354	57	7 736	1 403
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	3	—	3 938	676	395	114	876	97	2 304	423	363	42	10 577	1 959
Construction inspectors	19	—	57	11	8	—	—	—	34	11	15	—	455	39
Inspectors and compliance officers, except construction	48	7	2 356	87	202	17	1 716	32	358	38	80	—	16 105	631
Management related occupations, n.e.c.	18	6	142	42	23	7	9	—	94	35	16	—	5 245	116
Professional specialty occupations	3 112	375	72 978	6 993	8 727	724	7 208	425	54 106	4 960	2 937	284	136 216	9 750
Engineers, architects, and surveyors	404	6	36 471	1 186	4 297	139	5 323	197	25 013	816	1 838	34	110 808	3 111
Architects	27	6	89	14	6	—	13	—	68	14	2	—	4 545	357
Engineers	365	—	34 725	1 118	3 826	119	4 704	181	24 432	786	1 763	32	103 291	2 656
Aerospace engineers	—	—	52	—	—	—	—	—	45	—	—	—	165	7
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers	3	—	7 345	229	396	33	7	—	63	—	38	—	497	13
Petroleum engineers	6	—	18 337	593	1 07	—	3 346	134	896	37	877	5	198	7
Chemical engineers	3	—	1 080	29	112	—	86	—	18 156	593	26	—	104	—
Nuclear engineers	—	—	1	—	—	—	—	—	768	29	114	—	1 066	31
Civil engineers	49	—	1 325	41	180	—	310	23	1	18	—	—	548	—
Agricultural engineers	—	—	18	—	—	—	10	—	729	—	106	—	79 858	2 000
Electrical and electronic engineers	16	—	1 314	10	96	—	208	8	898	—	23	—	7 147	142
Industrial engineers	—	—	1 479	68	168	8	371	2	823	49	112	6	3 689	151
Mechanical engineers	30	—	1 332	15	277	7	126	1	736	23	193	—	5 531	108
Marine engineers and naval architects	223	—	261	23	12	—	2	—	245	23	2	—	187	—
Engineers, n.e.c.	35	—	1 677	67	252	18	190	11	1 064	26	171	12	4 278	197
Surveyors and mapping scientists	12	—	1 657	54	465	20	606	16	513	16	73	2	2 972	98
Mathematical and computer scientists	68	16	3 181	643	277	44	218	17	2 605	566	81	16	2 665	602
Computer systems analysts and scientists	12	7	2 139	364	173	22	147	7	1 807	330	32	5	1 500	324
Operations and systems researchers and analysts	—	—	833	218	78	15	52	6	664	190	39	7	920	196
Actuaries	—	—	15	—	—	—	—	—	9	—	—	—	—	—
Statisticians	56	9	126	61	19	7	19	4	84	46	4	4	204	64
Mathematical scientists, n.e.c.	—	—	48	—	7	—	—	—	41	—	—	—	41	8

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries—Con.						Mining						Construction					
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	2 307	196	27 411	3 150	3 573	365	1 018	114	22 139	2 568	681	102	3 094	391	525	8	3 094	391
Managerial and professional specialty occupations—Con.	6	—	213	11	18	5	—	—	195	6	—	—	95	8	326	275	326	275
Professional specialty occupations—Con.	—	—	3 667	844	639	165	365	50	2 409	581	254	48	471	77	17	6	471	77
Natural scientists	—	—	72	8	38	5	515	33	29	8	—	—	73	14	57	14	73	14
Physicists and astronomers	—	—	23 014	2 220	2 752	184	—	—	19 330	1 949	417	54	1 044	126	—	—	1 044	126
Chemists, except biochemists	—	—	191	5	65	5	42	—	84	—	—	—	191	39	—	—	191	39
Atmospheric and space scientists	—	—	30	10	5	5	5	—	20	—	—	—	—	15	—	—	—	15
Geologists and geodesists	—	—	18	32	23	5	51	14	44	18	—	—	510	68	—	—	510	68
Physical scientists, n.e.c.	205	23	18	10	5	5	5	—	20	—	—	—	252	15	—	—	252	15
Agricultural and food scientists	1 24	78	71	14	28	7	28	7	13	6	2	—	510	68	—	—	510	68
Biological and life scientists	1 93	78	71	14	28	7	28	7	13	6	2	—	412	33	—	—	412	33
Forestry and conservation scientists	—	—	35	6	5	—	7	—	13	—	—	—	46	11	—	—	46	11
Medical scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	11	7	64	4	11	4	—	—	53	—	—	—	111	31	—	—	111	31
Physicians	—	—	57	4	11	4	—	—	46	—	—	—	43	24	—	—	43	24
Dentists	—	—	7	—	—	—	—	—	7	—	—	—	18	—	—	—	18	—
Veterinarians	11	7	—	—	—	—	—	—	—	—	—	—	12	—	—	—	12	—
Optometrists	—	—	—	—	—	—	—	—	—	—	—	—	19	—	—	—	19	—
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—	12	—	—	—	12	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	7	—	—	—	7	—
Health assessment and treating occupations	16	7	201	134	52	34	31	31	87	38	31	31	525	350	—	—	525	350
Registered nurses	14	7	138	119	30	25	31	31	46	32	31	31	326	275	—	—	326	275
Pharmacists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dietitians	2	—	25	12	6	6	—	—	19	6	—	—	17	6	—	—	17	6
Therapists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Physicians' assistants	—	—	33	3	16	3	—	—	17	—	—	—	75	16	—	—	75	16
Teachers, postsecondary	15	—	112	9	33	9	65	—	10	—	4	—	153	8	—	—	153	8
Teachers, except postsecondary	16	16	340	8	23	—	109	2	175	—	33	6	584	83	—	—	584	83
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	—	—	—	—	—	—	24	7	—	—	24	7
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Counselors, educational and vocational	16	16	340	8	23	—	109	2	175	—	33	6	584	83	—	—	584	83
Librarians, archivists, and curators	27	24	323	290	47	47	—	—	261	228	15	15	231	142	—	—	231	142
Librarians	22	22	323	290	47	47	—	—	261	228	15	15	231	142	—	—	231	142
Archivists and curators	5	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	16	2	819	151	93	9	42	—	606	115	78	27	1 365	353	—	—	1 365	353
Economists	14	—	760	151	93	9	38	—	551	115	78	27	1 053	253	—	—	1 053	253
Psychologists	—	—	19	—	—	—	—	—	19	—	—	—	26	7	—	—	26	7
Sociologists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	—	—	34	—	—	—	—	—	34	—	—	—	187	67	—	—	187	67
Urban planners	2	2	6	—	—	—	4	—	2	—	—	—	98	25	—	—	98	25
Social, recreation, and religious workers	26	24	44	13	7	—	7	—	18	13	12	—	258	50	—	—	258	50
Social workers	8	8	—	—	—	—	—	—	—	—	—	—	165	37	—	—	165	37
Recreation workers	11	9	24	7	7	—	7	—	10	7	—	—	28	13	—	—	28	13
Clergy	7	7	14	—	—	—	—	—	2	—	—	—	55	—	—	—	55	—
Religious workers, n.e.c.	—	—	6	—	—	—	—	—	6	—	—	—	10	—	—	—	10	—
Lawyers and judges	31	—	2 012	235	88	13	193	19	1 698	203	33	—	1 214	130	—	—	1 214	130
Lawyers	31	—	2 012	235	88	13	193	19	1 698	203	33	—	1 214	130	—	—	1 214	130
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	168	70	1 991	570	226	59	202	45	1 432	413	131	53	15 048	4 472	—	—	15 048	4 472
Authors	7	—	25	—	6	—	6	—	19	—	—	—	51	14	—	—	51	14
Technical writers	—	—	176	57	17	—	55	6	153	57	—	—	824	316	—	—	824	316
Designers	—	—	448	111	64	31	4	—	287	53	37	21	10 712	3 090	—	—	10 712	3 090
Musicians and composers	—	—	9	—	—	—	—	—	5	—	—	—	40	12	—	—	40	12
Actors and directors	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	12	12	237	123	20	7	20	5	193	111	4	—	716	237	—	—	716	237
Photographers	8	—	76	11	—	—	12	7	64	4	—	—	270	26	—	—	270	26
Dancers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	6	6	18	5	—	—	—	—	13	7	—	—	115	16	—	—	115	16
Editors and reporters	36	30	205	106	25	19	6	—	150	65	24	16	525	290	—	—	525	290
Public relations specialists	75	22	703	155	77	2	96	21	478	116	52	16	1 372	452	—	—	1 372	452
Announcers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Athletes	10	—	99	—	12	—	3	—	70	—	14	—	376	12	—	—	376	12

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con. (Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A)

	United States				Mining				Agriculture, forestry, and fisheries—Con.			
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations	3 555	2 147	1 511	86 097	13 028	6 312	18 267	9 289	107 075	63 205	13 531	7 291
Technicians and related support occupations	933	184	33 058	6 369	3 883	781	2 993	481	23 825	4 713	2 357	394
Health technicians and technicians	9	9	294	53	89	9	65	—	109	26	31	18
Clinical laboratory technicians and technicians	9	9	46	12	7	—	8	—	26	7	5	5
Dental hygienists	—	—	7	—	7	—	—	—	—	—	—	—
Health record technicians	—	—	9	—	—	—	—	—	—	—	—	—
Radiologic technicians	—	—	56	35	6	6	—	—	9	—	—	—
Licensed practical nurses	—	—	176	6	69	3	57	—	37	16	13	13
Health technicians and technicians, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and related technicians and technicians	160	12	15 293	3 210	1 883	392	2 116	259	9 789	2 275	1 505	284
Electrical and electronic technicians	6	—	2 238	1 195	208	4	115	—	1 775	166	160	18
Industrial engineering technicians	—	—	61	—	11	—	22	—	59	—	13	—
Mechanical engineering technicians	—	—	4 907	1 146	755	169	783	149	2 322	597	1 047	231
Engineering technicians, n.e.c.	96	12	5 015	1 787	470	208	484	103	4 354	1 441	2 077	35
Drafting occupations	44	—	2 076	82	235	11	506	—	1 257	71	78	—
Surveying and mapping technicians	14	—	—	—	27	—	167	—	867	—	35	—
Science technicians	482	83	7 839	840	831	176	136	50	6 571	597	301	17
Biological technicians	453	54	220	67	11	5	14	8	140	54	35	5
Chemical technicians	12	12	854	163	405	76	56	27	342	55	31	5
Science technicians, except health, engineering, and science	17	17	6 765	610	415	95	66	15	6 089	488	175	12
Technicians, except health, engineering, and science	282	80	9 632	2 266	1 080	204	676	172	7 356	1 815	520	75
Airframe pilots and navigators	14	—	1 098	—	27	—	167	—	—	—	—	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	51	31	234	59	13	6	19	12	184	41	18	—
Computer programmers	29	5	3 171	1 030	258	53	211	84	2 354	884	146	29
Tool programmers, numerical control	—	—	38	20	15	15	—	—	18	5	—	—
Legal assistants	5	5	939	557	58	34	68	42	813	481	5	—
Technicians, n.e.c.	183	39	4 152	600	709	96	211	34	2 918	424	314	46
Sales occupations	338	84	10 327	847	343	44	697	64	8 211	651	1 056	88
Supervisors and proprietors, sales occupations	49	17	735	27	19	—	65	5	570	20	61	2
Salaried	26	6	685	25	19	—	65	5	543	20	68	2
Self-employed	21	11	40	2	—	—	—	—	27	—	13	2
Sales representatives, finance and business services	13	—	561	64	35	—	112	6	400	52	14	6
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	246	43	8 261	334	263	23	439	27	6 676	232	883	52
Sales engineers	—	—	685	—	7	—	7	—	640	—	31	—
Sales representatives, mining, manufacturing, and wholesale	246	43	7 576	334	256	23	432	27	6 036	232	852	52
Sales workers, retail and personal services	30	24	762	422	46	21	53	26	557	347	78	28
Sales workers, commodities	—	—	190	5	11	—	—	—	76	5	50	—
Sales counter clerks	—	—	108	94	7	—	—	—	101	94	28	—
Cashiers	24	24	377	310	21	21	28	26	300	235	28	28
Street and door-to-door sales workers	6	—	59	5	7	—	—	—	52	8	—	—
News vendors	—	—	28	8	—	—	—	—	28	8	—	—
Sales related occupations	—	—	8	—	—	—	—	—	8	—	—	—
Demonstrators, promoters and models, sales	—	—	—	—	—	—	—	—	—	—	—	—
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	2 284	1 879	108 516	78 881	8 782	5 487	14 577	8 744	75 039	57 841	10 118	6 809
Supervisors, administrative support occupations	198	69	2 256	2 256	605	162	636	158	5 017	1 797	536	157
Supervisors, general office	174	58	2 771	1 286	230	103	277	81	2 050	799	214	105
Supervisors, computer equipment operators	8	5	522	58	42	6	30	3	443	49	7	—
Supervisors, financial records processing	10	5	2 651	838	247	53	240	63	2 015	678	149	44
Supervisors, communications operations	—	—	70	11	6	—	—	—	21	5	35	—
Supervisors, distribution, scheduling, and adjusting clerks	6	6	780	63	80	—	81	6	488	50	131	8
Computer equipment operators	25	22	4 647	1 993	271	98	309	155	3 796	1 561	271	179
Computer operators	25	22	4 520	1 905	260	90	279	133	3 731	1 524	254	158
Peripheral equipment operators	—	—	127	88	11	8	30	22	65	37	21	21

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Fishing, hunting, and trapping

United States		Agriculture, forestry, and fisheries—Con.		Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Construction	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	987	40 058	39 511	2 964	2 906	4 340	4 259	30 192	29 846	2 562	2 500	152 542	150 233				
Administrative support occupations, including clerical—Con.	793	37 378	36 898	2 669	2 616	4 069	3 988	28 269	27 959	2 371	2 335	141 082	139 167				
Secretaries, stenographers, and typists	19	475	464	33	33	41	41	368	357	33	33	1 131	1 122				
Typists	175	2 205	2 149	262	257	230	230	1 555	1 530	158	132	10 329	9 944				
Information clerks	54	2 845	2 423	201	165	254	142	2 149	1 888	241	228	10 967	10 240				
Information clerks	—	161	112	2	—	6	—	133	92	20	20	294	179				
Interviewers	—	—	—	—	—	—	—	—	—	—	—	—	—				
Hotel clerks	—	160	75	27	20	12	—	104	48	17	7	209	64				
Transportation ticket and reservation agents	—	1 999	1 967	136	133	117	103	1 567	1 547	184	184	8 187	8 042				
Receptionists	41	525	525	36	12	119	39	350	201	20	17	2 277	2 255				
Information clerks, n.e.c.	13	—	—	—	—	—	—	—	—	—	—	—	—				
Records processing occupations, except financial	40	3 216	2 370	209	117	352	250	2 382	1 832	273	171	5 987	4 008				
Classified-ad clerks	—	36	12	8	—	2	—	26	12	—	—	29	29				
Correspondence clerks	—	40	28	—	—	2	—	38	26	—	—	86	57				
Order clerks	6	654	312	56	18	81	25	361	193	156	76	1 738	634				
Personnel clerks, except payroll and timekeeping	17	430	351	76	48	140	121	156	133	58	49	717	524				
Library clerks	—	12	12	5	—	—	—	7	7	—	—	36	29				
File clerks	3	1 784	1 469	56	38	114	89	1 570	1 311	44	31	3 102	2 554				
Records clerks	14	260	186	8	8	13	13	224	150	15	15	247	181				
Financial records processing occupations	391	18 330	15 126	1 188	868	2 488	1 968	12 282	10 374	2 372	1 916	107 151	94 900				
Bookkeepers, accounting, and auditing clerks	330	15 134	12 723	819	602	1 766	1 463	10 617	9 062	1 932	1 596	93 263	84 899				
Payroll and timekeeping clerks	27	2 053	1 598	272	186	573	423	946	807	262	182	10 764	7 730				
Billing clerks	17	732	620	58	58	118	59	439	401	117	102	1 978	1 643				
Cost and rate clerks	6	258	77	23	6	22	14	182	47	31	10	802	336				
Billing, posting, and calculating machine operators	—	153	108	16	16	9	9	98	57	30	26	344	292				
Duplicating, mail, and other office machine operators	13	365	208	13	11	57	17	289	174	6	6	556	339				
Duplicating machine operators	8	150	99	11	11	22	6	111	76	6	6	259	145				
Mail preparing and paper handling machine operators	5	30	17	—	—	—	—	30	17	—	—	42	35				
Office machine operators, n.e.c.	—	185	92	2	—	35	11	148	81	—	—	255	159				
Communications equipment operators	—	630	543	65	46	90	45	345	314	130	118	1 585	1 340				
Telephone operators	—	602	535	52	46	82	52	338	314	130	118	1 529	1 323				
Telegraphers	—	13	8	6	—	8	8	7	—	—	—	26	11				
Communications equipment operators, n.e.c.	—	13	8	6	—	—	—	—	—	—	—	—	—				
Mail and message distributing occupations	20	1 300	526	86	17	149	32	1 035	470	30	7	2 623	929				
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—				
Mail carriers, postal service	10	1 012	477	76	10	97	16	824	442	21	7	1 370	573				
Mail carriers, except postal service	10	288	49	10	7	58	14	211	28	9	—	1 253	356				
Messengers	136	13 785	3 363	1 730	305	3 872	516	5 809	1 824	2 374	718	23 133	5 198				
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—	—	—	—				
Dispatchers	8	1 805	380	42	—	38	5	1 487	319	238	56	2 380	618				
Production coordinators	32	2 284	995	260	60	162	25	1 671	854	191	56	4 657	1 346				
Traffic, shipping, and receiving clerks	47	2 220	315	154	49	244	106	1 220	53	308	107	2 957	1 400				
Stock and inventory clerks	24	5 556	731	932	102	2 694	238	1 472	351	458	40	8 106	1 525				
Meier readers	—	—	—	—	—	—	—	—	—	—	—	—	—				
Weights, measurers, and checkers	22	2 062	677	238	54	634	171	77	8	113	444	1 366	394				
Samplers	101	101	28	67	33	63	17	93	20	8	8	38	58				
Expeditors	3	605	178	67	33	63	17	437	121	38	7	3 219	697				
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—				
Adjusters and investigators	—	152	59	37	7	37	7	58	45	20	—	390	128				
Insurance adjusters, examiners, and investigators	24	1 438	367	106	25	176	45	1 089	283	67	14	3 978	968				
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—	—				
Eligibility clerks, social welfare	24	1 320	302	100	25	174	45	979	218	67	14	3 240	720				
Bill and account collectors	—	8	8	—	—	—	—	8	8	—	—	130	92				
Miscellaneous administrative support occupations	—	110	57	6	—	2	—	102	57	—	—	608	156				
General office clerks	396	15 108	10 195	1 344	767	1 854	1 137	10 654	7 496	1 256	795	45 793	32 028				
General office clerks	217	8 993	6 200	819	417	1 174	783	6 089	4 421	911	579	33 616	25 441				
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—				
Proofreaders	—	21	21	6	6	—	—	15	15	—	—	110	79				
Data-entry keyers	47	2 871	2 582	214	202	272	255	2 227	1 973	158	—	4 089	3 727				
Statistical clerks	23	1 279	776	123	51	114	39	964	671	58	15	1 666	986				
Teachers' aides	—	19	13	6	—	—	—	13	13	—	—	24	24				
Administrative support occupations, n.e.c.	78	1 925	603	176	91	294	60	1 326	403	129	49	6 288	1 773				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A]

United States	Mining									
	Agriculture, forestry, and fisheries—Con.		Fishing, hunting, and trapping		Total		Metal mining		Coal mining	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	1 673	389	17 577	2 437	3 526	515	4 196	499	7 100	1 092
Private household occupations	—	—	—	—	—	—	—	—	—	—
Protective service occupations	411	2	4 579	254	1 083	68	1 839	63	974	61
Supervisors, protective service occupations	—	—	134	—	29	—	32	—	55	—
Supervisors, firefighting and fire prevention occupations	—	—	25	—	7	—	—	—	13	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	111	2	109	—	22	—	32	—	42	—
Fire inspection and fire prevention occupations	95	—	118	—	29	—	20	—	60	—
Freightlifting occupations	16	2	59	—	16	—	9	—	32	—
Police and detectives	—	—	—	—	13	—	11	—	28	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	300	—	4 327	254	1 025	68	1 787	63	859	61
Crossing guards	—	—	6	—	—	—	6	—	—	—
Guards and police, except public service	217	—	4 304	252	1 012	68	1 781	63	857	61
Protective service occupations, n.e.c.	83	—	17	2	13	—	—	—	2	—
Service occupations, except protective and household	1 262	387	12 998	2 183	2 443	447	2 357	436	6 126	1 031
Food preparation and service occupations	521	264	1 535	221	70	53	40	19	1 369	133
Supervisors, food preparation and service occupations	3	3	29	—	—	—	—	—	29	—
Bartenders	2	—	21	—	11	—	—	—	15	—
Waiters and waitresses	424	189	1 212	149	41	36	28	19	39	16
Cooks, except short order	—	—	50	25	—	9	—	—	100	85
Short-order cooks	—	—	11	—	—	—	2	—	9	—
Food counter, fountain and related occupations	3	—	24	9	5	—	10	—	2	—
Kitchen workers, food preparation	68	49	8	8	—	—	—	—	8	8
Waiters and waitresses, assistants	—	—	—	—	—	—	—	—	—	—
Miscellaneous food preparation occupations	21	21	180	30	13	8	—	—	167	22
Health service occupations	4	2	105	68	70	41	—	—	29	27
Dental assistants	—	—	8	8	—	—	—	—	8	—
Health aides, except nursing	—	—	26	5	26	5	—	—	—	—
Nursing aides, orderlies, and attendants	4	—	71	—	44	—	—	—	21	19
Cleaning and building service occupations, except household	566	73	10 957	1 803	2 281	353	2 206	415	4 487	806
Supervisors, cleaning and building service workers	2	—	329	—	68	—	84	—	124	—
Maids and housemen	68	3	442	182	109	40	110	35	167	83
Janitors and cleaners	496	70	10 114	1 616	2 102	308	2 004	380	4 155	723
Refrigerator operators	—	—	72	—	—	—	8	—	41	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—
Personal service occupations	171	48	401	91	22	—	111	2	241	65
Supervisors, personal service occupations	—	—	35	12	—	—	16	—	7	—
Barbers	—	—	—	—	—	—	—	—	—	—
Hairdressers and cosmetologists	6	—	6	—	—	—	—	—	6	—
Attendants, amusement and recreation facilities	14	—	16	—	6	—	10	—	—	—
Guides	99	29	13	—	6	—	—	—	7	—
Ushers	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	38	5	48	16	—	—	10	—	35	16
Welfare service aides	14	14	283	63	10	—	75	2	186	49
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	48 656	2 480	694	14	48	—	184	2	350	12
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	308	55	16	—	—	—	6	—	8	—
Related agricultural occupations	716	86	334	12	30	—	67	—	164	12
Supervisors, related agricultural occupations	206	17	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	331	48	298	12	24	—	59	—	151	12
Animal caretakers, except farm	110	9	30	—	6	—	8	—	7	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	69	12	6	—	—	—	—	—	6	—
Nonmetallic mining and quarrying, except fuel	—	—	—	—	—	—	—	—	—	—
Crude petroleum and natural gas extraction	—	—	—	—	—	—	—	—	—	—
Construction	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries—Con.				Mining				Construction			
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.												
Supervisors, forestry and logging workers	417	63	219	2	16	—	92	—	84	—	27	—
Forestry workers, except logging	38	—	8	—	—	—	—	—	6	—	2	—
Timber cutting and logging occupations	225	45	55	—	8	—	33	—	78	—	14	—
Fishers, hunters, and trappers	154	11	125	2	2	—	19	—	94	—	10	—
Captains and other officers, fishing vessels	47 215	2 276	109	—	2	—	19	—	86	—	2	—
Fishers	4 161	2 113	13	—	—	—	—	—	5	—	8	—
Hunters and trappers	42 892	57	3	—	—	—	—	—	3	—	—	—
Construction trades—												
Supervisors, construction occupations	1 672	148	425 400	7 945	54 637	1 335	139 142	1 941	194 123	3 896	37 498	773
Supervisors, bricklayers, stonemasons, and tile setters	648	2	74 498	817	15 946	337	25 828	111	22 979	328	9 745	41
Supervisors, carpenters and related workers	29	—	3 221	9	669	—	9	—	1 121	—	401	—
Supervisors, electricians and power transmission installers	619	2	71 277	808	15 277	337	24 798	111	21 858	319	9 344	41
Supervisors, painters, paperhangers, and plasterers	326	—	20 589	177	5 261	—	24	—	4 725	15	3 494	18
Supervisors, plumbers, pipefitters, and steamfitters	72	—	6 154	64	1 935	58	1 147	—	2 106	6	966	—
Supervisors, n.e.c.	96	—	1 906	—	1 237	—	4	—	1	—	386	—
Construction trades, except supervisors	17	—	137	—	7	—	—	—	157	—	—	—
Bricklayers, stonemasons, and tile setters	124	—	137	—	6	—	—	—	131	—	—	—
Carpenters and related workers	—	—	229	—	9	—	34	—	174	—	—	—
Electricians and power transmission installers	—	—	16	—	10	—	4	—	2	—	—	—
Painters, paperhangers, and plasterers	17	—	11 766	113	3 012	62	5 673	24	995	9	2 086	18
Plumbers, pipefitters, and steamfitters	—	—	213	—	45	—	69	—	55	—	44	—
Supervisors, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Industrial machinery repairers	59	—	22 694	278	4 405	124	7 351	38	8 734	112	2 204	4
Machinery maintenance occupations	8	—	5 943	103	902	38	3 321	46	954	13	766	6
Electrical and electronic equipment repairers	29	—	1 610	63	288	13	554	3	667	49	101	—
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—	—	—
Data processing equipment repairers	29	—	874	23	157	6	340	—	322	17	55	—
Household appliance repairers	—	—	113	24	15	7	15	—	86	14	9	—
Telephone line installers and repairers	—	—	126	7	20	—	15	—	82	—	—	—
Telephone installers and repairers	—	—	24	—	13	—	7	—	11	—	—	—
Miscellaneous electrical and electronic equipment repairers	—	—	164	11	19	—	70	—	52	11	23	—
Heating, air conditioning, and refrigeration mechanics	—	—	309	—	64	—	117	—	114	—	14	—
Miscellaneous mechanics and repairers	8	—	267	15	42	6	17	—	192	9	16	—
Camera, watch, and musical instrument repairers	189	2	20 174	170	4 379	36	6 446	—	6 586	121	2 763	13
Locksmiths and safe repairers	—	—	78	9	7	—	—	—	71	—	—	—
Office machine repairers	—	—	27	—	9	—	—	—	18	—	—	—
Mechanical controls and valve repairers	7	—	51	6	14	—	13	—	24	—	—	—
Elevator installers and repairers	—	—	825	12	80	—	40	—	692	12	13	—
Auto mechanics, except engine	—	—	1 855	23	9	—	13	—	4	—	—	—
Motor vehicle mechanics and repairers, n.e.c.	7	—	8 193	85	1 062	3	2 423	141	184	12	468	8
Not specified mechanics and repairers	131	2	9 119	35	1 594	19	3 816	—	3 255	29	1 361	4
Construction trades—												
Supervisors, construction occupations	411	28	36 831	619	6 842	155	13 395	111	13 163	282	3 431	71
Supervisors, bricklayers, stonemasons, and tile setters	25	—	3 459	46	534	12	922	12	1 600	24	403	10
Supervisors, carpenters and related workers	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	44	—	1 056	—	26	—	398	—	297	—	—	—
Supervisors, painters, paperhangers, and plasterers	—	—	40	—	284	—	—	—	31	—	77	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	365	7	18	—	—	—	338	7	9	—
Supervisors, n.e.c.	25	—	1 954	39	206	—	520	—	920	17	308	10
Construction trades, except supervisors	386	28	33 372	573	6 308	155	12 473	99	11 563	258	3 028	61
Bricklayers, stonemasons, and tile setters	6	—	878	15	138	5	631	—	48	—	61	—
Carpenters and related workers	—	—	17	—	9	—	—	—	17	—	—	—
Electricians and power transmission installers	—	—	9	—	—	—	—	—	—	—	—	—
Painters, paperhangers, and plasterers	240	—	3 949	104	1 051	41	1 979	43	571	—	348	20
Plumbers, pipefitters, and steamfitters	—	—	34	—	—	—	21	—	—	—	13	—
Supervisors, n.e.c.	28	—	16 872	139	3 512	49	8 676	30	3 235	60	1 449	13
Construction trades, except supervisors	3	—	476	30	78	6	161	5	216	—	9	—
Bricklayers, stonemasons, and tile setters	64	21	937	70	218	24	106	—	418	28	197	18
Carpenters and related workers	3	—	12	—	10	—	2	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Agriculture, forestry, and fisheries—Con.	Mining				Total	Construction			
	Total	Female	Total	Female		Total	Female	Total	Female
Fishing, hunting, and trapping	12	—	49	6	—	290	16	—	—
Agriculture, forestry, and fisheries—Con.	11	—	3 278	90	24	729	—	—	—
Precision production, craft, and repair occupations—Con.	—	—	116	—	28	28	—	—	—
Construction trades—Con.	—	—	45	—	5	5	—	—	—
Construction trades, except supervisors—Con.	—	—	236	—	7	7	—	—	—
Plasterers	—	—	36	—	2	2	—	—	—
Painters, pipelayers, and steamfitters	—	—	40	—	13	13	—	—	—
Concrete and masonry finishers	—	—	—	—	—	—	—	—	—
Carpenters	—	—	—	—	—	—	—	—	—
Roofers	—	—	—	—	—	—	—	—	—
Insulation workers	—	—	—	—	—	—	—	—	—
Plumbing, painting, and taping equipment operators	—	—	—	—	—	—	—	—	—
Sheetmetal duct installers	—	—	—	—	—	—	—	—	—
Structural metal workers	—	—	—	—	—	—	—	—	—
Drillers, earth	—	—	—	—	—	—	—	—	—
Construction trades, n.e.c.	—	—	—	—	—	—	—	—	—
Supervisors, extractive occupations	129	—	278 532	5 627	754	93 568	1 624	529	—
Supervisors, nonextractive occupations	65	—	77 786	1 529	108	20 337	143	56	—
Drillers, oil well	44	—	66 888	769	32	389	2	220	—
Explosives workers	—	—	5 030	117	12	2 202	32	570	—
Mining machine operators	12	—	82 044	2 122	14 379	52 289	1 149	7 614	—
Mining occupations, n.e.c.	8	—	46 784	1 090	188	18 351	298	4 861	—
Precision production occupations	484	118	35 539	882	4 513	6 351	95	3 523	1 731
Supervisors, production occupations	154	29	10 820	273	1 766	2 779	25	1 318	18 513
Precision metalworking occupations	17	—	5 463	43	9	1 013	31	656	50 777
Tool and die makers	—	—	96	—	33	14	—	11	483
Precision assemblers, metal	—	—	28	9	8	9	—	3	13
Machinists	10	—	4 482	23	1 168	912	22	576	3
Boilermakers	—	—	23	—	7	30	—	20	72
Precision grinders, filers, and tool sharpeners	—	—	8	—	—	7	—	179	37
Pattenmakers and model makers, metal	—	—	46	—	—	2	—	120	10
Lay-out workers	—	—	58	—	8	7	—	63	22
Precious stones and metals workers (jewelers)	7	—	152	—	22	26	—	30	19
Engravers, metal	—	—	—	—	—	—	—	24	11
Sheet metal workers	—	—	—	—	—	—	—	—	296
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	46
Precision woodworking occupations	—	—	47	—	6	6	—	—	82
Pattenmakers and model makers, wood	—	—	7	—	—	—	—	—	79
Cabinet makers and bench carpenters	—	—	18	—	6	—	—	—	22
Furniture and wood finishers	—	—	16	—	—	6	—	—	60
Miscellaneous precision woodworkers	—	—	90	—	—	—	—	—	351
Precision textile, apparel, and furnishings machine workers	12	—	26	—	11	—	—	—	48
Dressmakers	—	—	46	—	—	—	—	—	222
Tailors	—	—	—	—	—	—	—	—	5
Upholsterers	—	—	13	—	4	—	—	—	6
Shoe repairers	—	—	—	—	—	—	—	—	—
Apparel and fabric patternmakers	—	—	6	—	—	—	—	—	8
Miscellaneous precision apparel and fabric workers	12	—	588	41	56	40	—	346	97
Precision workers, assorted materials	—	—	364	—	—	12	—	346	14
Hand molders and shapers, except jewelers	—	—	2	—	—	2	—	—	—
Pattenmakers, lay-out workers, and cutters	—	—	—	—	—	—	—	—	—
Optical goods workers	—	—	—	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	—	—	—	—	—	—	—	—	9
Bookbinders	—	—	—	—	—	—	—	—	74
Electrical and electronic equipment assemblers	—	—	77	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.	—	—	144	—	56	26	—	—	308
Precision food production occupations	157	87	74	6	10	16	6	—	630
Butchers and meat cutters	150	87	43	6	8	10	6	—	496
Bakers	—	—	—	—	2	6	—	—	115
Food batchmakers	—	—	246	—	3	66	—	10	19
Precision inspectors, testers, and related workers	—	—	—	—	—	—	—	—	97
Inspectors, testers, and graders	—	—	—	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	—	—	—	—	23

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States						Mining						Nonmetallic mining and quarrying, except fuel						Construction					
	Agriculture, forestry, and fisheries—Con.			Fishing, hunting, and trapping			Total			Metal mining			Coal mining			Crude petroleum and natural gas extraction			Total			Female		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Precision production, craft, and repair occupations—Con.																								
Precision production occupations	144	144	—	—	—	—	18 211	482	50	987	20	64	2 411	27	—	13 667	40	322	6 903	1 146	46	157	27	—
Plant and system operators	—	—	—	—	—	—	94	16	3	20	7	—	—	—	—	—	—	—	—	—	—	—	—	—
Water and sewage treatment plant operators	—	—	—	—	—	—	236	3	—	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Power plant operators	144	144	—	—	—	—	9 132	234	3	319	19	22	1 635	18	—	7 479	86	186	352	57	—	—	—	—
Stationary engineers	—	—	—	—	—	—	8 139	229	21	373	21	33	711	—	—	6 062	136	136	2 938	793	39	81	—	—
Miscellaneous plant and system operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Operators, fabricators, and laborers	4 544	4 544	—	—	—	—	269 332	7 194	1 932	35 996	93	2 071	89 594	10	—	93 100	1 915	1 915	1 320 270	50 642	1 276	33 557	—	—
Machine operators, assemblers, and inspectors	1 019	1 019	—	—	—	—	46 496	1 644	476	9 484	476	164	10 393	19	—	16 722	548	548	151 158	9 897	456	5 869	—	—
Machine operators and tenders, except precision	514	514	—	—	—	—	16 611	1 004	326	4 677	45	10	2 246	—	—	4 201	355	355	47 845	5 459	278	2 753	—	—
Metalworking and plastic working machine operators	16	16	—	—	—	—	2 386	56	27	418	—	—	—	—	—	1 394	12	12	4 464	328	7	169	—	—
Lathes and turning machine set-up operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lathes and turning machine operators	5	5	—	—	—	—	370	—	—	65	—	—	60	—	—	234	—	—	1 299	11	—	22	—	—
Milling and planing machine operators	—	—	—	—	—	—	74	—	—	29	—	—	13	—	—	13	—	—	363	19	—	—	—	—
Punching and stamping press machine operators	—	—	—	—	—	—	259	4	—	144	—	—	41	—	—	54	2	2	925	20	2	48	—	—
Rolling machine operators	—	—	—	—	—	—	28	—	—	—	—	—	—	—	—	28	—	—	37	—	—	—	—	—
Drilling and boring machine operators	—	—	—	—	—	—	248	37	27	116	—	10	58	—	—	49	—	—	371	25	—	13	—	—
Grinding, abrading, buffing, and polishing machine operators	6	6	—	—	—	—	1 299	5	—	54	—	—	66	—	—	942	—	—	1 407	237	5	50	—	—
Forging machine operators	5	5	—	—	—	—	82	10	—	8	—	—	8	—	—	6	—	—	134	6	—	10	—	—
Numerical control machine operators	—	—	—	—	—	—	18	—	—	—	—	—	—	—	—	9	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	—	—	6	—	—	2	—	—	—	—	—	3	—	—	117	1	—	7	—	—
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	132	16	—	21	—	—	6	—	—	105	—	—	392	—	—	18	—	—
Metal and plastic processing machine operators	2	2	—	—	—	—	364	45	29	121	—	—	97	—	—	97	13	13	914	49	3	49	—	—
Molding and casting machine operators	2	2	—	—	—	—	258	40	24	61	—	—	80	—	—	84	13	13	502	33	3	24	—	—
Metal plating machine operators	—	—	—	—	—	—	62	—	—	42	—	—	9	—	—	9	—	—	186	4	—	—	—	—
Heat treating equipment operators	—	—	—	—	—	—	15	—	—	8	—	—	—	—	—	2	—	—	77	5	—	—	—	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	29	5	5	10	—	—	8	—	—	2	—	—	149	9	—	21	—	—
Woodworking machine operators	21	21	—	—	—	—	429	14	—	32	—	—	228	—	—	50	10	10	1 725	119	2	117	—	—
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	3	—	—	44	—	—	—	—	—
Sawing machine operators	10	10	—	—	—	—	234	14	—	24	—	—	76	—	—	32	10	10	1 478	102	2	108	—	—
Shaping and joining machine operators	—	—	—	—	—	—	19	—	—	—	—	—	—	—	—	14	—	—	88	5	—	—	—	—
Nailing and tacking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous woodworking machine operators	11	11	—	—	—	—	173	—	—	8	—	—	152	—	—	1	—	—	113	12	—	9	—	—
Printing machine operators	11	11	—	—	—	—	501	185	20	51	—	—	26	—	—	370	154	154	925	54	2	218	—	—
Printing machine operators	11	11	—	—	—	—	378	110	14	14	—	—	10	—	—	300	108	108	729	54	2	180	—	—
Photoengravers and lithographers	—	—	—	—	—	—	59	27	14	23	—	—	7	—	—	29	13	13	28	—	—	6	—	—
Typesetters and compositors	—	—	—	—	—	—	48	48	6	6	—	—	9	—	—	33	33	33	102	—	—	19	—	—
Miscellaneous printing machine operators	—	—	—	—	—	—	16	—	—	8	—	—	—	—	—	8	—	—	66	—	—	13	—	—
Textile, apparel, and furnishings machine operators	47	47	—	—	—	—	561	238	28	50	—	—	75	—	—	155	43	43	1 130	281	167	248	—	—
Winding and twisting machine operators	3	3	—	—	—	—	30	11	6	8	—	—	2	—	—	12	2	2	131	8	3	19	—	—
Knitting, looping, taping, and weaving machine operators	—	—	—	—	—	—	18	10	—	—	—	—	—	—	—	18	10	10	55	—	—	13	—	—
Textile cutting machine operators	—	—	—	—	—	—	21	—	—	—	—	—	—	—	—	9	—	—	—	—	—	—	—	—
Textile sewing machine operators	20	20	—	—	—	—	265	174	—	6	—	—	36	—	—	45	21	21	582	178	153	177	—	—
Shoe machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pressing machine operators	2	2	—	—	—	—	23	8	8	8	—	—	—	—	—	8	—	—	44	—	—	5	—	—
Laundry and dry cleaning machine operators	15	15	—	—	—	—	32	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous textile machine operators	—	—	—	—	—	—	172	29	14	7	—	—	37	—	—	2	—	—	102	23	6	22	—	—
Machine operators, assorted materials	417	417	—	—	—	—	12 338	450	222	3 984	—	—	1 596	—	—	2 030	107	107	38 295	4 628	97	1 934	—	—
Cementing and glazing machine operators	2	2	—	—	—	—	137	2	—	16	—	—	—	—	—	88	—	—	2 562	33	2	27	—	—
Packaging and filling machine operators	31	31	—	—	—	—	104	—	—	17	—	—	17	—	—	31	—	—	177	39	—	20	—	—
Extruding and forming machine operators	—	—	—	—	—	—	72	—	—	58	—	—	—	—	—	—	—	—	204	5	—	—	—	—
Mixing and blending machine operators	—	—	—	—	—	—	793	28	6	95	—	—	31	—	—	451	9	9	1 466	216	13	50	—	—
Separating, filtering, and clarifying machine operators	2	2	—	—	—	—	1 874	70	45	570	—	—	630	—	—	415	7	7	283	259	6	6	—	—
Compressing and compacting machine operators	—	—	—	—	—	—	72	15	6	13	—	—	15	—	—	30	—	—	67	24	9	8	—	—
Painting and point spraying machine operators	3	3	—	—	—	—	297	6	—	12	—	—	34	—	—	172	6	6	79	8	—	—	—	—
Roasting and baking machine operators, food	—	—	—	—	—	—	34	—	—	24	—	—	2	—	—	2	—	—	30	—	—	—	—	—
Washing, cleaning, and picking machine operators	—	—	—	—	—	—	34	—	—	2	—	—	4	—	—	6	—	—	5	22	6	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States				Mining				Construction			
	Agriculture, forestry, and fisheries—Con.		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Fishing, hunting, and trapping	7	—	30	—	23	—	1	—	6	—	—	—
Operators, fabricators, and laborers—Con.	12	27	1 781	251	592	21	251	67	264	6	674	98
Machine operators, assemblers, and inspectors—Con.	7	213	6 160	1 444	2 469	144	377	12	219	9	3 095	1 171
Machine operators, assemblers, and inspectors—Con.	78	16	6 655	1 444	74	—	221	—	199	6	161	3 162
Folding machine operators	—	—	—	—	—	—	—	—	—	—	—	39
Furnace, kiln, and oven operators	—	—	—	—	—	—	—	—	—	—	—	815
Crushing and grinding machine operators	—	—	—	—	—	—	—	—	—	—	—	299
Slicing and cutting machine operators	—	—	—	—	—	—	—	—	—	—	—	299
Motion picture projectionists	—	—	—	—	—	—	—	—	—	—	—	299
Photographic process machine operators	95	67	195	—	19	—	13	—	150	60	13	6 028
Miscellaneous machine operators, n.e.c.	47	—	—	—	—	—	—	—	—	—	—	299
Miscellaneous machine operators, n.e.c.	180	72	—	—	—	—	—	—	—	—	—	939
Machine operators, not specified	—	—	—	—	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	419	108	24 610	341	4 075	50	7 074	67	9 525	129	3 936	98 736
Welders and cutters	174	—	22 504	144	3 819	33	6 665	41	8 292	28	3 728	86 595
Solders and brazers	—	—	—	—	—	—	—	—	—	—	—	—
Assemblers	56	8	1 770	179	170	15	253	20	1 160	91	187	9 731
Hand cutting and trimming occupations	158	100	51	8	4	2	34	—	8	6	5	113
Hand molding, casting, and forming occupations	—	—	—	—	—	—	—	—	—	—	—	—
Hand painting, coating and decorating occupations	—	—	—	—	—	—	—	—	—	—	—	—
Hand engraving and printing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Hand grinding and polishing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	31	—	146	—	13	—	104	—	—	—	—	94
Production inspectors, testers, samplers, and weighers	86	43	5 275	299	732	100	1 045	52	2 996	64	502	4 577
Production inspectors, checkers, and examiners	13	8	3 088	78	189	19	439	13	2 196	21	264	3 101
Production testers	2	—	834	48	123	18	87	11	565	19	59	199
Production samplers and weighers	—	—	990	111	375	48	438	28	88	10	89	4
Graders and sorters, except agricultural	71	35	363	62	45	15	81	—	147	14	90	377
Transportation and material moving occupations	1 004	42	159 340	2 745	16 258	610	56 866	944	56 292	700	29 924	465 228
Motor vehicle operators	505	7	53 554	1 019	6 367	293	14 788	242	17 721	287	14 678	168 726
Supervisors, motor vehicle operators	—	—	—	—	—	—	—	—	—	—	—	—
Truck drivers, heavy	391	—	63	—	6 124	247	14 155	174	16 153	230	13 953	156 777
Truck drivers, light	79	—	50 385	848	6 128	23	353	30	1 020	39	18	8 078
Truck drivers, light	8	—	2 062	92	3	—	19	6	76	—	561	442
Driver-sales workers	—	—	116	25	34	6	101	19	17	—	2	284
Bus drivers	—	—	673	33	57	17	113	5	365	11	138	2 381
Taxicab drivers and chauffeurs	—	—	72	15	4	—	25	8	43	7	—	118
Parking lot attendants	—	—	29	—	17	—	9	—	3	—	—	745
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Rail transportation occupations	7	—	7 219	281	1 574	57	3 324	76	1 612	3	709	495
Railroad conductors and yardmasters	—	—	1 272	179	179	33	555	49	135	97	376	20
Locomotive operating occupations	—	—	3 794	80	865	14	2 269	26	451	40	209	183
Railroad brake, signal, and switch operators	7	—	2 087	22	479	10	467	—	1 020	3	121	280
Rail vehicle operators, n.e.c.	—	—	66	—	—	—	6	—	6	—	3	12
Water transportation occupations	247	30	2 801	26	57	—	169	6	2 342	20	233	4 963
Ship captains and mates, except fishing boats	172	16	1 263	20	—	—	67	4	1 080	20	116	1 790
Sailors and deckhands	64	14	1 443	4	37	—	89	7	1 222	—	95	1 747
Marine engineers	11	—	43	—	10	—	—	—	—	—	245	—
Bridge, lock, and lighthouse tenders	—	—	32	2	10	—	6	—	9	—	7	981
Material moving equipment operators	245	5	95 766	1 419	8 240	260	38 585	620	34 617	390	14 304	291 040
Supervisors, material moving equipment operators	7	—	708	155	1 919	54	6 787	54	2 010	6	4 211	2 268
Operating engineers	54	—	14 927	—	—	—	—	—	—	—	—	—
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators	53	2	17 940	142	953	24	894	17	15 748	4	345	4 399
Crane and tower operators	19	—	3 859	22	809	18	456	7	1 590	7	1 004	21 263
Excavating and loading machine operators	17	—	12 435	116	1 538	25	6 318	61	3 755	13	3 755	43 228
Grader, dozer, and scraper operators	5	—	12 032	53	801	11	824	13	1 201	11	2 072	18 541
Industrial truck and tractor equipment operators	28	—	6 061	167	918	78	2 258	8	799	37	2 086	18 048
Miscellaneous material moving equipment operators	62	3	27 800	753	1 286	50	12 860	467	12 245	204	1 409	4 329

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Agriculture, forestry, and fisheries—Con.						Mining						Construction					
	Fishing, hunting, and trapping			Total			Metal mining			Coal mining			Crude petroleum and natural gas extraction			Nonmetallic mining and quarrying, except fuel		
	Total	Female		Total	Female		Total	Female		Total	Female		Total	Female		Total	Female	
2 521	977	63 496	2 805	10 254	846	22 335	963	20 086	667	10 821	329	703 884	21 017					
19	—	48	—	—	—	10	—	22	—	16	—	677	23					
20	—	948	32	263	2	276	10	264	7	145	13	2 697	83					
15	5	20 791	1 250	3 585	369	10 052	514	4 863	258	2 291	109	79 127	2 451					
5	—	476	9	87	—	138	—	224	9	27	—	77 388	2 382					
—	—	1 521	43	465	7	234	3	810	33	12	—	1 739	69					
—	—	18 794	1 198	3 033	362	9 680	511	3 829	216	2 252	109	—	—					
57	2	4 832	87	663	26	1 040	11	2 416	34	693	16	604 312	17 471					
43	33	1 124	48	165	2	225	5	639	39	95	2	5 454	238					
240	21	11 173	265	942	70	3 929	49	3 065	88	3 237	58	7 576	257					
—	—	17	6	2	—	9	—	6	6	2	—	752	11					
24	—	44	—	5	—	23	—	12	—	4	—	48	—					
9	—	253	41	7	2	26	—	85	33	133	6	1 246	121					
61	21	2 145	30	74	12	183	2	1 776	13	132	2	334	23					
146	—	8 492	188	852	55	3 688	47	1 186	36	2 966	50	5 196	102					
15	—	417	1	99	—	128	—	136	1	54	—	1 946	82					
37	18	719	18	125	2	204	7	269	7	121	2	1 026	77					
401	275	445	79	80	14	54	24	82	3	439	38	1 069	335					
1 689	623	22 779	1 025	4 332	361	6 367	343	8 330	230	3 730	91	—	—					

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Entry collectors
 Stevedores
 Stock handlers and loaders
 Machine feeders and operators
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, nondurable goods											
	Manufacturing, total			Total			Meat products			Dairy products		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed persons 16 years and over	21 914 754	6 995 805	14 918 949	3 493 250	1 044 647	2 448 603	323 060	104 647	228 413	150 671	33 531	116 882
Managerial and professional specialty occupations	3 181 630	549 632	2 631 998	280 043	3 215	2 587	23 427	3 215	2 587	16 877	2 509	14 368
Executive, administrative, and managerial occupations	1 893 173	331 156	1 562 017	146 559	2 582	143 977	20 671	2 582	143 977	14 915	2 049	12 866
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	114	19	95	42	5	37	—	—	—	—	—	—
Financial managers	74 405	13 029	61 376	5 696	93	5 603	869	664	805	674	61	785
Personnel and labor relations managers	58 782	14 793	43 989	6 132	189	5 943	664	189	5 754	296	94	785
Purchasing managers	24 445	2 829	21 616	5 926	2	5 924	176	2	5 922	115	15	100
Managers, marketing, advertising, and public relations	206 518	24 068	182 450	95 038	14 401	81 637	1 573	54	1 519	1 351	101	1 420
Administrators, education and related fields	1 484	312	1 172	519	8	511	—	—	—	8	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	1 761	227	1 534	672	57	615	6	—	—	7	—	—
Managers and administrators, n.e.c.	194	35	159	80	—	80	11 706	1 132	10 574	9 320	895	7 574
Managers and administrators, n.e.c.	1 095 822	142 419	953 403	71 589	1 132	70 457	10 524	976	9 548	8 565	788	7 760
Self-employed	1 026 626	130 570	896 056	64 337	1 556	63 781	1 182	156	1 026	7 555	107	223
Accountants and auditors	67 182	11 899	55 283	29 697	—	29 697	—	—	—	—	—	—
Management related occupations	429 638	133 485	296 153	142 668	1 104	141 564	5 663	1 104	140 460	3 144	883	3 892
Accountants and auditors	197 529	67 065	130 464	25 203	642	24 561	2 000	642	23 919	1 805	650	1 722
Other financial officers	18 729	5 014	13 715	71	—	71	113	—	113	35	9	128
Management analysts	12 508	2 658	9 850	1 722	14	1 708	113	14	1 694	44	6	76
Personnel, training, and labor relations specialists	80 805	26 239	54 566	9 696	128	9 568	704	128	9 440	401	111	711
Purchasing agents and buyers, farm products	2 981	117	2 864	117	33	84	553	33	520	439	6	417
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	105 604	29 284	76 320	8 003	135	7 868	982	135	7 733	338	64	755
Business and promotion agents	1 436	396	1 040	2	2	2	—	—	—	13	6	—
Construction inspectors	559	71	488	23	—	23	—	—	—	37	9	68
Inspectors and compliance officers, except construction	6 008	1 476	4 532	1 023	143	880	270	143	837	14	4	7
Management related occupations, n.e.c.	3 322	1 082	2 240	522	17	505	—	—	—	—	—	—
Professional specialty occupations	1 288 457	218 476	1 069 981	133 484	633	123 151	2 756	633	1 228	1 962	460	3 458
Engineers, architects, and surveyors	722 904	32 160	690 744	7 402	89	7 313	1 413	89	7 224	815	45	1 488
Architects	1 716	126	1 590	22	—	22	—	—	—	5	—	—
Engineers	720 749	32 012	688 737	7 380	89	7 291	1 391	89	7 202	810	45	1 486
Aerospace engineers	19 105	2 453	16 652	26	—	26	—	—	—	—	—	—
Metalurgical and materials engineers	402	814	—	38	—	38	—	—	—	—	—	—
Mining engineers	1 728	102	1 626	88	—	88	—	—	—	—	—	—
Petroleum engineers	45 674	2 140	43 534	1 763	4	1 759	—	—	—	33	6	51
Nuclear engineers	2 511	83	2 428	32	—	32	—	—	—	26	—	—
Civil engineers	12 596	456	12 140	179	—	179	143	—	—	—	—	—
Agricultural engineers	2 619	71	2 548	86	—	86	—	—	—	—	—	—
Electrical and electronic engineers	163 638	4 870	158 768	143	—	143	—	—	—	40	—	—
Industrial engineers	152 975	14 708	138 267	4 115	82	4 033	570	82	3 951	199	31	571
Mechanical engineers	147 813	2 795	145 018	23 985	82	23 903	350	82	23 821	328	—	—
Marine engineers and naval architects	3 455	42	3 413	2	—	2	—	—	—	—	—	—
Engineers, n.e.c.	91 210	3 463	87 747	777	7	770	253	7	766	184	8	393
Surveyors and mapping scientists	439	22	417	133	—	133	—	—	—	—	—	—
Mathematical and computer scientists	99 219	19 487	79 732	18 844	54	18 790	191	54	18 646	134	36	322
Computer systems analysts and scientists	65 606	11 170	54 436	2 375	14	2 361	98	14	2 347	100	26	225
Operations and systems researchers and analysts	26 354	5 248	21 106	1 286	40	1 246	69	40	1 206	17	—	—
Actuaries	155	63	92	—	—	—	—	—	—	—	—	—
Statisticians	5 499	2 512	2 987	1 942	—	1 942	24	—	—	17	10	32
Mathematical scientists, n.e.c.	1 605	219	1 386	45	—	45	—	—	—	—	—	—
Food and kindred products												
Canned and preserved fruits and vegetables	199 418	83 942	115 476	199 418	83 942	115 476	199 418	83 942	115 476	199 418	83 942	115 476
Grain mill products	144 974	30 830	114 144	144 974	30 830	114 144	144 974	30 830	114 144	144 974	30 830	114 144
Bakery products	192 167	58 609	133 558	192 167	58 609	133 558	192 167	58 609	133 558	192 167	58 609	133 558
Sugar and confectionery products	103 997	39 321	64 676	103 997	39 321	64 676	103 997	39 321	64 676	103 997	39 321	64 676

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, nondurable goods														
	Manufacturing, total		Food and kindred products												
	Total		Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products		Sugar and confectionery products		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con.	80 450	14 693	55 205	10 762	327	104	437	158	293	932	237	145	11	605	147
Managerial and professional specialty occupations—Con.	4 275	211	43 357	7 491	146	29	157	41	101	604	120	82	11	388	72
Professional specialty occupations—Con.	788	185	124	72	—	—	6	6	—	2	8	—	—	—	—
Natural scientists	1 261	124	786	86	—	—	—	—	—	—	—	—	—	—	—
Physicists and astronomers	740	136	385	88	114	35	120	52	88	195	74	30	—	6	—
Chemists, except biochemists	2 173	593	1 952	542	43	22	115	53	60	106	22	22	—	125	30
Atmospheric and space scientists	6 153	2 355	4 814	1 761	24	18	22	6	44	17	13	11	—	53	23
Geologists and geodesists	3 851	1 349	1 765	621	102	6	14	—	35	48	4	13	13	28	22
Physical scientists, n.e.c.	1 975	665	1 758	215	14	6	10	—	24	6	4	5	5	6	—
Agricultural and food scientists	3 054	401	1 758	215	14	6	10	—	24	6	4	5	5	6	—
Biological and life scientists	2 038	238	1 151	121	82	—	4	—	7	—	—	8	8	—	—
Forestry and conservation scientists	274	45	66	24	—	—	—	—	—	—	—	—	—	—	—
Medical scientists	477	44	437	26	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	84	48	32	26	—	—	—	—	—	—	—	—	—	—	—
Physicians	91	26	72	18	6	6	—	—	—	—	—	—	—	—	—
Dentists	90	26	72	18	—	—	—	—	—	—	—	—	—	—	—
Optometrists	90	26	72	18	—	—	—	—	—	—	—	—	—	—	—
Veterinarians	90	26	72	18	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	90	26	72	18	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	90	26	72	18	—	—	—	—	—	—	—	—	—	—	—
Health assessment and training occupations	17 823	15 483	6 904	5 360	340	276	78	51	165	268	96	114	114	81	81
Registered nurses	15 582	14 770	5 323	4 936	275	268	33	33	142	71	71	97	97	75	75
Pharmacists	937	218	865	185	59	2	33	12	23	197	25	17	17	6	6
Dietitians	668	280	506	186	6	6	6	6	—	—	—	—	—	—	—
Therapists	340	135	123	26	6	6	6	6	—	—	—	—	—	—	—
Therapists' assistants	296	80	87	27	16	16	6	—	5	—	—	11	—	14	8
Physicians' assistants	1 483	542	653	335	38	26	50	30	70	48	42	27	7	29	14
Teachers, postsecondary	15 802	5 694	4 979	3 186	—	—	—	—	—	—	—	—	—	—	—
Teachers, except postsecondary	96	22	49	17	—	—	—	—	—	—	—	—	—	—	—
Teachers, prekindergarten and kindergarten	430	220	45	13	—	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	15 276	5 452	4 885	3 156	38	26	50	30	70	48	42	27	7	29	14
Teachers, n.e.c.	732	335	345	166	—	—	—	—	—	—	—	—	—	—	—
Counselors, educational and vocational	4 266	3 324	2 840	1 595	—	—	9	4	14	30	16	5	—	6	6
Librarians, archivists, and curators	4 060	3 203	2 940	1 509	—	—	—	—	—	—	—	—	—	—	—
Librarians	206	121	116	86	—	—	—	—	—	—	—	—	—	—	—
Archivists and curators	29 137	7 272	10 230	3 134	67	13	116	35	81	194	56	91	31	128	28
Social scientists and urban planners	28 180	7 065	9 878	3 011	67	13	116	35	81	194	56	91	31	128	28
Economists	588	124	151	54	—	—	—	—	—	—	—	—	—	—	—
Psychologists	50	7	8	6	—	—	—	—	—	—	—	—	—	—	—
Sociologists	206	73	149	60	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	113	3	44	3	—	—	—	—	—	—	—	—	—	—	—
Urban planners	1 746	590	982	279	35	7	13	8	—	5	—	19	6	2	2
Social, recreation, and religious workers	2770	351	120	336	17	7	7	—	—	—	—	—	—	2	2
Social workers	287	113	117	55	—	—	6	—	—	—	—	—	—	—	—
Recreation workers	539	89	454	80	18	—	—	—	—	—	—	—	—	—	—
Clergy	150	37	75	24	—	—	—	—	—	—	—	—	—	—	—
Religious workers, n.e.c.	11 756	1 394	5 268	732	46	6	89	7	71	111	23	35	—	42	16
Lawyers and judges	11 756	1 394	5 268	732	46	6	89	7	71	111	23	35	—	42	16
Lawyers	299 885	117 081	208 481	95 543	181	36	201	94	197	415	125	224	56	254	121
Judges	4 097	1 835	3 479	1 629	—	—	8	7	—	8	—	—	—	—	—
Writers, artists, entertainers, and athletes	20 516	5 459	5 372	2 415	5	—	—	—	—	—	—	—	—	—	—
Authors	80 246	24 468	34 302	16 937	11	—	61	30	70	28	15	92	36	161	89
Technical writers	1 505	400	382	300	—	—	—	—	—	—	—	—	—	—	—
Designers	36 137	17 196	24 716	12 804	26	—	19	17	3	17	9	13	2	5	—
Musicians and composers	14 050	2 688	10 838	2 168	10	—	23	10	2	20	—	15	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	71	47	49	28	11	—	—	—	—	—	—	—	—	—	—
Photographers	2 608	1 328	1 718	918	—	—	—	—	—	—	—	—	—	—	—
Dancers	122 394	56 818	117 776	54 491	18	—	11	—	9	33	26	5	1	6	—
Artists, performers, and related workers, n.e.c.	16 803	6 503	8 985	3 693	100	20	72	19	98	110	40	91	10	76	25
Editors and reporters	157	63	83	48	—	—	—	—	—	—	—	—	—	—	—
Public relations specialists	405	164	164	34	—	—	—	—	—	—	—	—	—	—	—
Announcers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Athletes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Manufacturing, nondurable goods																									
	Total													Food and kindred products												
	Manufacturing, total			Meat products			Dairy products			Canned and preserved fruits and vegetables			Grain mill products			Bakery products			Sugar and confectionery products							
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	4 128 349	2 137 694	1 674 477	936 355	36 248	19 440	28 320	17 052	28 423	19 108	28 517	15 703	32 167	16 918	16 769	9 497	411 863	210 495	411 863	210 495	411 863	210 495	411 863	210 495	411 863	210 495
Technical, sales, and administrative support occupations	691 586	333 046	1 193 233	53 984	2 187	889	3 461	1 764	3 978	2 353	3 438	1 189	11	328	2 045	688	106 816	40 495	106 816	40 495	106 816	40 495	106 816	40 495	106 816	40 495
Technicians and related support occupations	9 583	3 804	3 720	1 795	29 780	12 404	53	20	46	39	30	10	11	11	42	15	10 425	3 302	10 425	3 302	10 425	3 302	10 425	3 302	10 425	3 302
Health technologists and technicians	2 454	1 301	1 292	749	29	20	28	14	11	4	15	10	—	—	—	—	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935
Clinical laboratory technologists and technicians	126	30	26	13	5	—	—	—	—	—	—	—	—	—	—	—	100 425	23 324	100 425	23 324	100 425	23 324	100 425	23 324	100 425	23 324
Dental hygienists	168	101	97	64	—	—	—	—	—	—	—	—	—	—	—	—	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935
Health record technologists and technicians	358	144	106	62	—	—	—	—	—	—	—	—	—	—	—	—	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935
Radiologic technicians	1 523	1 261	539	491	53	—	25	—	9	18	11	9	—	—	—	—	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935
Licensed practical nurses	4 954	2 617	1 660	416	—	—	—	—	—	—	—	—	—	—	—	—	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935	136 159	45 935
Health technologists and technicians, n.e.c.	59 091	26 057	14 421	575	296	68	247	102	594	123	527	81	203	15	477	90	400 876	174 696	400 876	174 696	400 876	174 696	400 876	174 696	400 876	174 696
Engineering and related technologists and technicians	144 695	71 696	13 777	1 777	43	10	29	6	12	5	12	—	—	—	—	—	144 695	71 696	144 695	71 696	144 695	71 696	144 695	71 696	144 695	71 696
Electrical and electronic technicians	7 385	1 456	3 681	867	20	54	4	—	—	—	—	—	—	—	—	—	144 695	71 696	144 695	71 696	144 695	71 696	144 695	71 696	144 695	71 696
Industrial engineering technicians	10 722	5 033	1 117	335	20	54	4	—	—	—	—	—	—	—	—	—	144 695	71 696	144 695	71 696	144 695	71 696	144 695	71 696	144 695	71 696
Mechanical engineering technicians	100 425	23 324	28 806	82	82	51	160	93	200	99	199	35	26	2	10	59	100 425	23 324	100 425	23 324	100 425	23 324	100 425	23 324	100 425	23 324
Engineering technicians, n.e.c.	136 159	15 935	14 218	2 481	111	—	54	3	223	19	199	32	72	13	210	59	136 159	15 935	136 159	15 935	136 159	15 935	136 159	15 935	136 159	15 935
Drifting occupations	1 290	177	458	109	—	—	—	—	—	—	—	—	—	—	—	—	136 159	15 935	136 159	15 935	136 159	15 935	136 159	15 935	136 159	15 935
Surveying and mapping technicians	1 290	177	458	109	—	—	—	—	—	—	—	—	—	—	—	—	136 159	15 935	136 159	15 935	136 159	15 935	136 159	15 935	136 159	15 935
Science technicians	108 203	31 645	84 663	25 988	1 224	605	2 741	1 475	2 797	2 022	2 258	906	319	216	1 217	499	108 203	31 645	108 203	31 645	108 203	31 645	108 203	31 645	108 203	31 645
Biological technicians	24 947	11 773	24 250	10 468	902	416	2 461	1 344	2 237	1 630	1 986	838	210	132	1 035	425	24 947	11 773	24 250	10 468	24 250	10 468	24 250	10 468	24 250	10 468
Chemical technicians	56 310	11 859	49 639	10 468	50	32	37	22	127	82	187	26	35	25	94	29	56 310	11 859	49 639	10 468	49 639	10 468	49 639	10 468	49 639	10 468
Science technicians, n.e.c.	26 946	8 013	12 774	3 980	272	157	243	109	433	310	433	42	84	25	88	45	26 946	8 013	26 946	8 013	26 946	8 013	26 946	8 013	26 946	8 013
Technicians, except health, engineering, and science	172 924	38 506	42 793	11 780	542	138	420	167	541	169	643	183	237	86	309	84	172 924	38 506	172 924	38 506	172 924	38 506	172 924	38 506	172 924	38 506
Airplane pilots and navigators	4 507	70	1 233	3	66	—	21	—	26	—	45	—	27	—	33	—	4 507	70	4 507	70	4 507	70	4 507	70	4 507	70
Air traffic controllers	1 522	370	388	127	—	—	—	—	—	—	—	—	—	—	—	—	1 522	370	1 522	370	1 522	370	1 522	370	1 522	370
Broadcast equipment operators	93 010	24 621	18 051	5 939	339	—	283	126	327	77	312	112	8	66	155	62	93 010	24 621	93 010	24 621	93 010	24 621	93 010	24 621	93 010	24 621
Computer programmers	4 535	1 656	572	139	15	—	6	—	13	—	2	—	—	—	12	—	4 535	1 656	4 535	1 656	4 535	1 656	4 535	1 656	4 535	1 656
Tool programmers, numerical control	2 086	1 367	996	608	86	—	103	35	175	85	244	54	70	20	102	7	2 086	1 367	2 086	1 367	2 086	1 367	2 086	1 367	2 086	1 367
Legal assistants	67 264	11 422	21 553	4 964	—	—	—	—	—	—	—	—	—	—	—	—	67 264	11 422	67 264	11 422	67 264	11 422	67 264	11 422	67 264	11 422
Technicians, n.e.c.	698 747	149 825	388 454	104 416	6 707	1 353	5 457	1 644	3 268	774	5 807	521	11 907	4 808	3 346	1 326	698 747	149 825	388 454	104 416	388 454	104 416	388 454	104 416	388 454	104 416
Sales occupations	53 484	9 364	22 224	5 442	375	21	851	133	370	42	497	64	410	143	286	125	53 484	9 364	53 484	9 364	53 484	9 364	53 484	9 364	53 484	9 364
Supervisors and proprietors, sales occupations	49 013	8 631	22 224	5 442	375	21	851	133	370	42	497	64	410	143	286	125	49 013	8 631	49 013	8 631	49 013	8 631	49 013	8 631	49 013	8 631
Self-employed	4 471	733	1 363	323	74	14	21	5	26	15	29	6	67	9	34	20	4 471	733	4 471	733	4 471	733	4 471	733	4 471	733
Sales representatives, finance and business services	92 964	30 164	90 442	29 353	8	—	21	—	32	15	40	12	14	6	6	—	92 964	30 164	90 442	29 353	90 442	29 353	90 442	29 353	90 442	29 353
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	966	190	539	104	—	—	21	—	7	—	6	—	9	—	—	—	966	190	966	190	966	190	966	190	966	190
Securities and financial services sales occupations	38 909	17 883	36 814	17 160	8	—	—	—	—	—	—	—	—	—	—	—	38 909	17 883	36 814	17 160	36 814	17 160	36 814	17 160	36 814	17 160
Advertising and related sales occupations	53 089	12 091	53 089	12 091	—	—	—	—	—	—	—	—	—	—	—	—	53 089	12 091	53 089	12 091	53 089	12 091	53 089	12 091	53 089	12 091
Sales occupations, other business services	433 496	68 694	183 629	34 900	5 707	—	909	136	2 577	488	5 115	325	9 071	3 457	2 870	1 050	433 496	68 694	183 629	34 900	183 629	34 900	183 629	34 900	183 629	34 900
Sales representatives, commodities, except retail	21 633	558	2 572	158	—	—	9	—	4	—	5	—	—	—	—	—	21 633	558	2 572	158	2 572	158	2 572	158	2 572	158
Sales engineers	411 863	68 136	181 057	34 742	5 707	—	909	136	2 577	488	5 115	325	9 071	3 457	2 870	1 050	411 863									
Sales representatives, mining, manufacturing, and wholesale	106 816	40 495	90 103	33 877	402	276	476	338	263	211	148	113														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, total		Food and kindred products										Total	
	Total		Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products		Sugar and confectionery products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	683 771	674 685	263 846	259 906	4 599	4 552	5 118	5 079	5 752	5 704	2 780	2 717	2 625	2 588
Administrative support occupations, including clerical—Con.	589 530	583 093	222 137	219 569	4 329	4 285	4 715	4 708	5 339	5 293	2 547	2 486	2 359	2 322
Secretaries, stenographers, and typists	6 915	6 706	22 619	22 500	28	28	33	33	15	15	9	9	6	6
Typists	87 326	84 885	39 090	37 837	239	242	350	338	398	396	224	222	260	260
Information clerks	57 482	52 455	27 911	25 578	454	408	471	409	383	336	271	264	217	209
Interviewers	6 844	5 605	4 001	3 259	61	40	64	56	30	30	6	6	36	36
Hotel clerks	2 119	917	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	42 116	41 245	921	435	11	—	46	—	58	55	—	—	—	—
Receptionists	4 403	4 124	19 514	19 134	365	358	330	330	243	235	6	6	23	23
Information clerks, n.e.c.	167 139	114 270	75 228	55 733	17	10	22	22	52	52	244	242	153	153
Records processing occupations, except financial	7 884	6 482	27 887	27 887	15	5	16	16	10	10	966	704	574	574
Classified clerks	64 806	62 371	1 970	1 970	27	27	23	23	359	359	409	447	27	27
Order clerks	13 029	11 653	27 887	20 053	522	251	415	291	85	84	50	45	115	110
Personnel clerks, except payroll and timekeeping	2 546	1 457	1 919	1 407	175	167	255	248	24	24	6	6	283	182
Library clerks	65 844	42 334	26 679	18 207	771	354	976	822	9	9	—	—	—	—
File clerks	8 157	5 996	5 202	3 867	12	2	24	20	12	12	301	192	273	222
Records clerks	366 431	315 288	159 140	140 833	5 313	4 469	3 719	3 493	3 746	3 221	3 534	3 174	1 707	1 344
Financial records processing occupations	268 139	235 791	118 020	104 883	4 088	3 428	2 629	2 453	3 189	2 771	2 723	2 472	1 212	916
Bookkeepers, accounting, and auditing clerks	53 460	43 861	20 835	18 726	382	351	799	768	206	182	464	410	361	318
Payroll and timekeeping clerks	28 877	25 689	14 254	12 804	397	366	175	170	213	191	234	203	89	80
Billing clerks	12 034	7 007	4 329	2 919	125	98	72	63	101	53	49	25	22	17
Cost and rate clerks	3 921	2 940	1 702	1 397	53	48	44	39	37	24	64	64	23	13
Billing, posting, and calculating machine operators	12 985	7 980	6 814	3 967	13	7	40	24	80	63	30	23	21	21
Duplicating machine operators	5 029	2 945	2 095	1 131	—	—	14	14	21	16	17	10	5	5
Mail preparing and paper handling machine operators	2 864	1 705	2 408	1 419	13	7	18	10	43	36	13	13	16	16
Office machine operators, n.e.c.	5 092	3 330	2 311	1 417	—	—	8	8	16	16	—	—	—	—
Communications equipment operators	19 720	17 845	8 363	7 545	242	219	139	132	128	104	120	115	151	105
Telephone operators	19 028	17 538	8 139	7 435	242	219	133	126	128	104	120	115	105	105
Telegraphers	511	219	40	89	—	—	6	6	—	—	—	—	32	—
Communications equipment operators, n.e.c.	49 356	19 116	33 288	11 662	233	118	239	110	306	165	132	7	210	103
Mail and message distributing occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postal clerks, except mail carriers	39 662	16 581	26 661	10 021	—	—	209	108	—	—	—	—	—	—
Mail carriers, postal service	9 694	2 535	6 627	1 641	—	—	30	2	—	—	117	7	—	—
Mail clerks, except postal service	640 827	199 258	216 330	71 352	92	69	4 933	2 221	51	20	15	—	28	13
Messengers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dispatchers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Production coordinators	140 864	2 218	2 688	71 352	8 974	3 021	2 221	2 221	3 228	883	6 080	1 097	2 742	734
Traffic, shipping, and receiving clerks	239 507	51 212	37 777	22 430	164	35	79	24	105	19	13	13	13	13
Stock and inventory clerks	193 594	61 694	50 076	17 444	589	168	459	250	418	168	466	314	294	122
Meier readers	—	—	—	—	2 960	314	1 547	420	1 079	228	3 721	305	1 238	214
Weights, measures, and checkers	27 092	9 875	15 938	7 173	1 270	273	1 608	696	849	257	807	248	908	235
Samplers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Equalizers	47 019	18 854	7 578	4 443	3 915	2 203	1 164	762	685	161	790	204	240	139
Material recording, scheduling, and distributing clerks, n.e.c.	4 782	2 535	1 343	852	12	6	2	2	11	2	46	12	37	18
Adjusters and investigators	37 984	20 729	15 718	9 807	213	130	25	25	7	7	29	12	12	6
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	31 560	16 535	12 218	7 472	169	110	228	155	186	93	134	76	103	54
Eligibility clerks, social welfare	300	240	179	151	—	—	—	—	—	—	—	—	—	—
Bill and account collectors	6 124	3 954	3 321	2 184	44	20	19	19	185	93	100	48	86	49
Miscellaneous administrative support occupations	416 689	321 164	180 288	145 244	—	—	—	—	—	—	—	—	—	—
General office clerks	233 248	186 797	100 214	83 731	3 338	2 615	2 549	2 117	2 593	2 079	3 293	2 893	1 698	1 343
Bank tellers	—	—	—	—	2 341	1 843	1 554	1 309	1 592	1 274	2 544	2 221	1 130	836
Proofreaders	16 515	13 013	15 698	12 369	—	—	—	—	—	—	—	—	—	—
Date-entry keyers	86 381	80 602	30 351	679	576	541	554	530	14	14	—	—	9	349
Statistical clerks	22 487	14 331	8 592	5 854	58	44	118	95	588	595	541	527	354	349
Teachers aides	378	278	153	115	160	160	314	181	267	267	—	—	—	—
Administrative support occupations, n.e.c.	57 680	26 174	22 389	12 624	236	76	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods

Manufacturing, total		Total		Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products		Sugar and confectionery products		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con.																
Service occupations	493 917	86 739	216 431	43 310	14 979	2 385	5 231	1 065	10 723	2 709	6 669	1 268	9 139	2 225	5 143	964
Private household occupations	97 126	6 881	32 713	2 201	1 516	100	302	8	1 144	56	460	18	306	—	791	39
Protective service occupations	4 081	183	996	37	—	—	7	—	17	—	26	—	15	—	22	—
Supervisors, protective service occupations	468	—	103	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	3 613	183	893	37	37	6	7	—	17	—	22	—	15	—	22	—
Firefighting and fire prevention occupations	4 334	159	1 148	24	7	6	—	—	16	—	22	—	7	—	52	—
Freighting occupations	2 058	93	627	16	7	—	—	—	16	—	16	—	7	—	42	—
Freighting occupations	2 276	66	521	8	—	—	—	—	—	—	6	—	—	—	10	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	88 711	6 539	30 569	2 140	1 472	94	295	8	1 111	56	412	18	284	—	717	39
Guards	88 348	6 479	30 389	2 096	1 455	94	288	8	1 102	56	412	18	284	—	699	33
Crossing guards	242	49	132	35	17	—	7	—	9	—	—	—	—	—	18	6
Guards and police, except public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	396 791	79 858	183 718	41 109	13 463	2 285	4 929	1 057	9 579	2 653	6 209	1 250	8 833	2 225	4 352	925
Food preparation and service occupations	32 852	19 055	21 528	11 426	1 805	882	14	534	2 118	31	744	410	2 312	1 259	910	333
Food preparation and service occupations, except household	1 703	779	1 108	503	92	46	6	6	15	—	30	21	57	—	56	25
Supervisors, food preparation and service occupations	3 305	2 701	2 611	64	5	—	6	—	40	—	—	—	443	—	5	45
Bartenders	13 855	6 143	10 109	4 109	989	313	289	138	1 745	501	88	78	668	279	45	140
Waiters and waitresses	3 305	2 701	2 611	64	5	—	6	—	40	—	—	—	443	—	5	45
Cooks, except short order	1 144	855	780	326	47	24	126	82	11	1	11	14	191	1	9	8
Short-order cooks	1 144	855	780	326	47	24	126	82	11	1	11	14	191	1	9	8
Food counter, fountain and related occupations	1 871	1 336	1 325	929	48	37	17	173	138	13	22	26	47	36	7	10
Kitchen workers, food preparation	1 871	1 336	1 325	929	48	37	17	173	138	13	22	26	47	36	7	10
Waiters' and waitresses' assistants	8 339	5 287	4 970	2 930	499	356	101	54	575	258	140	88	757	236	158	98
Miscellaneous food preparation occupations	3 864	2 773	1 599	1 225	134	116	11	9	109	95	14	5	83	53	14	6
Health service occupations	163	124	42	33	14	8	2	7	7	7	4	—	48	18	6	6
Dental assistants, except nursing	711	334	411	222	120	108	2	2	22	18	4	—	35	35	8	—
Health aides, except nursing	2 990	2 315	1 146	970	113	108	2	2	80	70	10	—	70	—	—	—
Nursing aides, attendants, and attendants	350 771	53 044	155 497	25 301	11 357	1 193	3 902	496	6 614	1 516	5 296	770	6 346	841	3 269	534
Cleaning and building service occupations, except household	6 387	3 452	3 055	221	321	18	54	3	263	92	263	67	507	121	256	44
Supervisors, cleaning and building service workers	21 592	6 851	10 186	3 623	576	88	216	86	364	140	567	680	5 627	720	2 768	468
Maid and housemen	318 986	45 310	139 649	21 154	10 274	1 087	3 618	407	6 107	1 404	4 550	262	5 627	720	2 768	468
Janitors and cleaners	3 277	355	2 160	244	159	108	12	2	35	6	262	2	59	—	114	7
Elevator operators	529	76	447	59	27	—	—	—	29	14	112	—	—	—	70	6
Pest control occupations	9 304	4 986	5 094	3 157	167	94	32	18	70	34	155	65	92	72	79	52
Personal service occupations	514	98	294	72	17	6	2	—	46	—	11	—	—	6	—	—
Supervisors, personal service occupations	178	77	79	44	6	—	—	—	—	—	—	—	—	—	—	—
Barbers	843	671	626	519	8	—	8	—	5	—	—	—	—	—	5	—
Hairdressers and cosmetologists	1 349	436	756	236	8	—	—	—	4	—	—	—	—	—	—	—
Attendants, amusement and recreation facilities	1 221	541	771	403	14	—	—	—	10	13	4	14	9	—	32	—
Guides	256	48	34	6	3	—	—	—	13	13	16	—	—	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	86	28	55	22	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	604	364	234	176	9	—	2	—	4	4	9	—	—	—	15	—
Child care workers, except private household	4 253	2 723	2 253	1 679	110	70	20	18	30	17	75	46	57	42	42	20
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	101 497	3 941	6 073	934	229	30	180	12	285	98	171	17	47	7	140	45
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	772	504	182	84	—	6	6	—	108	59	—	—	—	—	—	—
Related agricultural occupations	7 891	1 186	3 665	512	195	22	153	7	132	26	132	17	47	7	119	43
Supervisors, related agricultural occupations	138	88	30	19	—	—	—	—	5	—	6	—	6	—	—	—
Groundskeepers and gardeners, except farm	6 583	782	2 704	200	90	6	55	—	109	5	79	—	34	—	113	37
Animal caretakers, except farm	1 058	315	883	272	99	10	97	7	18	12	39	15	7	7	6	—
Grocers and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	92	21	48	21	6	—	1	—	—	—	14	2	—	—	—	—

[Data are estimates based on a sample. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods											
	Manufacturing, total						Food and kindred products					
	Total		Male		Female		Total		Male		Female	
	Total	Male	Female	Total	Male	Female	Meat products	Dairy products	Canned and preserved fruits and vegetables	Grain mill products	Bakery products	Sugar and confectionery products
United States												
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Construction trades—Con.												
Construction trades, except supervisors—Con.												
Plasterers	437	92	27	126	38	9	338	60	270	441	100	309
Plumbers, pipefitters, and steamfitters	87 249	1 706	319	27 856	15	—	15	—	10	3	—	3
Concrete and terrazzo finishers	1 389	49	18	171	—	—	—	—	12	6	5	16
Glaziers	3 414	684	23	135	—	—	—	2	—	—	—	—
Leadline workers	8 198	685	72	3 276	—	—	—	—	—	—	—	—
Painting, surfacing, and tamping equipment operators	255	48	2	27	—	—	—	—	—	—	—	—
Roadies	1 186	29	23	239	—	—	—	—	—	—	—	—
Sheetmetal duct installers	6 186	228	22	268	—	—	—	—	—	—	—	—
Structural metal workers	16 992	342	32	456	—	—	—	—	—	—	—	—
Drillers, earth	8 879	185	15	58	—	—	—	—	—	—	—	—
Construction trades, n.e.c.	8 032	469	11	1 966	—	—	—	—	—	—	—	—
Extrusive occupations	5 643	586	14	2 266	—	—	—	—	—	—	—	—
Supervisors, extractive occupations	995	70	39	551	—	—	—	—	—	—	—	—
Drillers, oil well	2 088	450	36	278	—	—	—	—	—	—	—	—
Explosives workers	1 171	132	49	394	—	—	—	—	—	—	—	—
Mining machine operators	939	223	135	531	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	939	115	37	512	—	—	—	—	—	—	—	—
Precision production occupations	2 730 676	450 036	189 263	831 541	20 409	1 793	85 793	17 716	19 711	12 058	43 659	13 707
Supervisors, production occupations	1 277 685	170 287	91 468	486 508	2 011	572	16 466	8 663	13 393	9 496	11 114	6 978
Precision metalworking occupations	814 172	50 449	8 782	82 451	80	4	794	399	1 399	1 000	1 114	95
Tool and die makers	182 499	3 122	223	9 247	20	—	20	11	62	9	—	6
Precision assemblers, metal	21 131	5 170	154	417	56	18	619	365	1 151	661	20	95
Machinists	440 128	21 719	5 015	56 264	49	—	56	19	69	41	20	132
Boilermakers	13 431	303	30	276	—	—	26	—	—	—	—	—
Precision grinders, files, and tool sharpeners	17 178	1 011	179	572	—	—	—	—	—	—	—	—
Pattenmakers and model makers, metal	18 059	1 632	115	2 617	11	—	11	—	5	8	—	—
Lay-out workers	19 774	1 967	509	1 089	—	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	21 589	7 911	139	300	5	2	—	—	—	—	—	—
Engravers, metal	10 322	3 213	1	5 346	—	—	—	—	—	—	—	—
Sheet metal workers	68 096	3 870	108	3 352	44	4	44	4	112	250	19	91
Miscellaneous precision metal workers	1 965	531	33	171	—	—	—	—	—	—	7	25
Precision woodworking occupations	69 245	11 355	687	1 876	3	—	3	—	—	9	18	6
Pattenmakers and model makers, wood	3 997	76	2	223	—	—	—	—	—	—	12	6
Cabinet makers and bench carpenters	45 830	3 834	20	256	3	—	—	—	—	—	—	—
Furniture and wood finishers	15 311	6 474	53	1 09	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	4 107	971	612	1 288	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	89 753	42 363	33 374	63 060	52	28	83	83	50	27	25	21
Dressmakers	18 965	14 955	13 869	14 955	25	1	—	—	12	6	4	11
Tailors	29 597	9 718	9 612	29 248	2	2	9	9	10	10	10	9
Upholsterers	21 499	4 613	252	1 493	2	8	—	—	—	—	—	—
Shoe repairers	12 207	6 894	1 951	11 951	23	39	—	—	28	19	11	6
Apparel and fabric patternmakers	3 220	1 705	1 410	2 546	2	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	4 265	2 172	1 436	2 867	—	—	—	—	—	—	—	—
Precision workers, assorted materials	218 174	111 334	16 218	30 771	81	15	—	—	10	17	100	27
Hand molders and shapers, except jewelers	31 246	4 367	104	583	5	—	—	—	—	—	—	—
Pattenmakers, lay-out workers, and cutters	7 775	1 718	740	1 718	—	—	—	—	—	—	—	—
Optical goods workers	14 072	5 951	57	159	—	—	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	3 680	945	54	159	—	—	—	—	—	—	—	—
Bookbinders	26 294	14 726	14 580	26 017	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	100 799	77 372	386	459	29	7	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.	34 378	6 330	397	1 716	46	8	—	—	—	—	—	—
Precision food production occupations	126 737	36 336	35 646	123 164	67 395	1 155	7 669	1 155	4 176	1 010	30 379	7 388
Butchers and meat cutters	75 636	21 662	21 314	73 492	17 671	206	206	52	1 298	405	28 778	4 651
Bakers	31 751	7 931	7 715	30 806	7 715	134	134	54	264	311	28 741	6 59
Food batchmakers	19 350	6 743	6 617	18 866	704	7 329	7 329	1 049	2 614	294	1 360	353
Precision inspectors, testers, and related workers	63 142	24 128	817	2 462	21	6	—	—	—	—	—	—
Inspectors, testers, and graders	60 483	22 072	804	2 399	42	21	—	—	—	—	—	—
Adjusters and calibrators	2 659	2 056	13	63	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods									
	Food and kindred products					Bakery products				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States										
	Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
71 770	3 784	2 271	960	64	656	2	482	37	899	11
2 536	86	41	21	1	45	—	16	5	10	—
4 338	97	57	42	3	27	—	6	5	—	—
43 718	1 904	1 879	815	35	538	2	378	20	887	11
21 278	1 897	1 478	82	26	46	—	82	12	—	—
9 881 391	3 697 155	2 028 082	152 381	59 050	105 972	52 998	67 513	9 609	83 918	27 585
7 664 536	3 198 441	1 725 174	54 833	22 881	58 004	35 479	32 265	5 079	28 659	10 235
5 075 852	2 063 122	1 464 411	37 025	14 775	38 432	20 928	28 723	3 636	24 556	8 084
682 617	120 471	8 531	718	101	338	92	303	71	106	297
32 672	3 406	381	24	2	9	—	3	—	8	—
106 534	8 991	3 988	730	12	51	—	36	—	26	—
106 534	8 991	3 988	730	12	51	—	36	—	26	—
145 136	45 727	140	20	10	16	—	128	21	8	—
17 745	7 596	3 654	206	9	76	34	85	23	8	—
58 781	12 146	542	14	6	34	9	9	—	115	2
236 428	41 240	8 787	633	83	90	21	147	8	39	2
13 418	951	541	—	—	2	—	63	2	—	—
2 461	172	35	—	—	—	—	—	—	—	—
29 756	4 114	2 703	27	6	49	28	24	17	23	4
29 354	10 344	2 950	27	6	24	8	4	15	15	8
205 587	51 949	63 092	45	22	328	122	169	27	132	12
132 388	44 368	58 344	27	27	298	117	136	27	132	27
37 443	4 948	27 473	6	—	20	—	16	—	—	—
22 539	1 181	309	—	—	—	—	7	—	—	—
13 217	1 452	1 582	5	5	10	—	10	—	—	—
128 143	19 446	8 256	171	90	88	61	19	5	139	30
6 964	725	173	143	87	49	42	7	—	—	—
85 716	10 262	3 636	2	2	11	7	12	5	114	24
7 566	3 087	2 125	18	3	18	12	—	—	—	—
3 833	1 303	393	6	—	10	—	—	—	—	—
24 064	4 069	1 731	8	3	10	—	—	—	—	—
367 194	91 479	83 638	92	47	528	208	222	20	58	15
243 859	34 242	228 494	28 608	27	487	174	216	20	42	8
22 168	3 373	20 810	17	7	7	—	6	—	—	—
60 687	32 885	58 359	31 515	3	7	—	—	—	—	—
40 480	20 979	38 612	8	6	27	27	—	16	16	7
1 221 830	1 020 111	159 395	960	516	230	100	334	113	96	56
101 469	75 956	99 016	74 587	—	5	5	1	2	2	5
67 663	43 470	42 663	10	—	—	—	19	5	—	—
8 020	3 860	7 655	169	117	2	—	3	2	—	—
798 158	752 926	711 269	237	166	105	33	220	91	27	19
67 359	50 064	66 635	24	9	20	7	18	10	10	4
38 618	26 809	37 991	26 536	—	5	—	—	—	—	—
3 494	1 754	2 587	171	84	23	9	24	5	25	9
137 049	65 272	128 601	349	140	70	46	49	10	32	12
2 441 127	749 322	1 090 170	367 726	21 394	37 096	20 337	27 472	3 400	24 010	7 940
26 720	14 178	12 553	7 027	38	67	33	56	6	36	17
91 388	47 129	39 870	9 356	4 244	13 958	9 375	1 886	727	3 198	1 498
21 992	3 008	12 370	1 549	167	29	18	908	374	62	73
92 041	8 683	71 503	5 833	1 056	1 626	461	3 480	90	4 137	176
62 083	4 871	55 737	3 305	645	631	138	504	12	96	7
16 606	4 872	9 434	2 288	3 717	138	32	150	14	28	13
104 739	21 846	15 601	3 630	75	413	76	172	11	115	88
6 002	893	3 608	89	118	239	87	523	17	2 133	309
7 015	1 463	3 685	296	59	630	339	39	20	339	10

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and equipment maintenance plant operators
Water and sewer treatment plant operators
Power plant operators
Stationary engineers
Miscellaneous plant and system operators
Operators, fabricators, and laborers
Machine operators, assemblers, and inspectors
Machine operators and tenders, except precision
Metalworking and plastic working machine operators
Lathes and turning machine operators
Lathe and turning machine operators
Milling and planing machine operators
Punching and stamping press machine operators
Rolling machine operators
Drilling and boring machine operators
Grinding, abrading, buffing, and polishing machine operators
Forging machine operators
Numerical control machine operators
Miscellaneous metal, plastic, stone, and glass working machine operators
Fabricating machine operators, n.e.c.
Metal and plastic processing machine operators
Molding and casting machine operators
Metal plating machine operators
Heat treating equipment operators
Miscellaneous metal and plastic processing machine operators
Woodworking machine operators
Food lathe, routing, and planing machine operators
Sawing machine operators
Shaping and joining machine operators
Nailing and loading machine operators
Miscellaneous woodworking machine operators
Printing machine operators
Printing machine operators
Photoengravers and lithographers
Typesetters and compositors
Miscellaneous printing machine operators
Textile, apparel, and furnishings machine operators
Winding and twisting machine operators
Knitting, looping, taping, and weaving machine operators
Textile cutting machine operators
Textile sewing machine operators
Shoe machine operators
Pressing machine operators
Laundry and dry cleaning machine operators
Miscellaneous textile machine operators
Machine operators, assorted materials
Generating and gluing machine operators
Extruding and filling machine operators
Packaging and filling machine operators
Mixing and blending machine operators
Separating, filtering, and clarifying machine operators
Compressing and compacting machine operators
Painting and paint spraying machine operators
Roasting and baking machine operators
Washing, cleaning, and picking machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Manufacturing, total				Total				Food and kindred products				Sugar and confectionery products			
Total		Female		Total		Female		Total		Female		Total		Female	
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Machine operators, assemblers, and inspectors—Con.															
Machine operators and tenders, except precision—Con.															
Machine operators, assorted materials—Con.															
Folding machine operators															
Forces, lift, and oven operators, except food															
Finishing and grinding machine operators															
Sewing and cutting machine operators															
Machine operators, miscellaneous															
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Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.

Folding machine operators
Forming, lathe, and oven operators, except food
Crushing and grinding machine operators
Slicing and cutting machine operators
Motion picture projectors
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified
Fabricators, assemblers, and hand working occupations
Welders and cutters
Soldiers and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating, and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural
Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.

Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders

Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods									
	Total					Food and kindred products				
	Meat products					Dairy products				
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total
Employed persons 16 years and over—Con.										
Operators, fabricators, and laborers—Con.										
Handlers, equipment cleaners, helpers, and laborers	1 306 438	439 259	647 122	271 954	78 987	35 647	20 232	5 594	30 938	15 764
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	2 018	170	769	78	52	11	29	—	17	—
Helpers, mechanics and repairers	4 269	240	1 475	81	49	—	20	—	51	—
Helpers, construction and extractive occupations	8 621	664	1 273	68	30	—	—	—	19	—
Helpers, construction trades	8 491	648	1 215	57	30	—	—	—	19	—
Helpers, surveyor	130	16	58	11	—	—	—	—	4	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—
Construction laborers	13 144	878	4 101	293	280	36	33	4	86	10
Production helpers	14 023	10 464	27 002	6 256	429	85	331	64	300	83
Freight, stock, and material handlers	261 082	49 205	127 464	26 472	8 388	1 142	6 334	279	3 741	773
Garbage collectors	867	365	364	142	14	5	—	—	21	3
Stewards	358	24	123	6	—	—	—	—	—	—
Stock handlers and buggers	38 916	12 372	19 656	8 006	987	57	698	97	609	213
Machine feeders and offbearers	87 592	25 802	45 813	13 814	895	277	947	108	611	275
Freight, stock, and material handlers, n.e.c.	133 353	10 602	61 481	4 590	6 490	266	4 687	74	2 500	282
Garage and service station related occupations	3 782	465	2 186	242	68	12	79	—	36	—
Vehicle and equipment cleaners	35 400	8 555	19 063	5 262	1 802	231	1 036	125	1 523	447
Hand packagers and packagers	360 974	237 945	231 779	163 759	37 119	23 901	6 201	4 098	13 325	10 242
Laborers, except construction	555 121	130 873	232 010	69 443	30 770	10 229	6 169	1 024	11 840	4 185
United States										
Manufacturing, total										
Total										
Food and kindred products										
Total										
Meat products										
Total										
Dairy products										
Total										
Canned and preserved fruits and vegetables										
Total										
Grain mill products										
Total										
Bakery products										
Total										
Sugar and confectionery products										
Total										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Manufacturing, nondurable goods—Con.															
Food and kindred products—Con.				Tobacco manufactures				Textile mill products							
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Knitting mills		Dyeing and finishing textiles, except wool and knit goods		Floor coverings, except hard surface					
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female				
206 901	40 275	163 222	58 684	49 138	17 913	69 860	24 871	180 071	118 048	60 521	20 943	67 930	26 712		
28 212	4 440	22 832	3 895	9 948	1 808	7 500	1 298	9 290	2 337	4 657	883	6 221	1 373		
22 647	3 301	18 956	2 968	8 239	1 319	5 462	855	7 574	1 542	3 398	533	4 939	998		
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[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

		Food and kindred products—Con.				Tobacco manufactures				Textile mill products			
		Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Knitting mills		Dyeing and finishing textiles, except wool and knit goods		Floor coverings, except hard surface	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States													
Employed persons 16 years and over—Con.													
Technical, sales, and administrative support occupations	41 322	20 524	17 324	30 027	5 371	10 591	5 371	12 562	6 471	20 841	14 211	12 756	7 729
Technicians and related support occupations	3 729	1 251	1 319	3 074	465	1 079	465	1 711	574	1 135	524	1 171	330
Health technologists and technicians	12	6	15	54	9	6	9	28	14	11	2	9	2
Health technologists and technicians	6	6	13	13	6	6	6	8	—	—	—	—	—
Clinical laboratory technologists and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—
Dental hygienists	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—
Radiologic technicians	—	—	—	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	—	—	—	—	—	—	—	—	—	—	—	—	—
Health technologists and technicians, n.e.c.	6	—	2	39	3	3	3	11	11	11	2	7	2
Engineering and related technologists and technicians	459	53	99	350	23	139	23	901	281	631	297	588	216
Electrical and electronic technicians	94	42	10	91	—	18	—	221	6	34	11	36	7
Industrial engineering technicians	29	—	—	6	—	4	—	72	—	53	39	56	30
Mechanical engineering technicians	13	—	—	12	—	5	—	27	—	8	—	8	—
Engineering technicians, n.e.c.	131	36	73	120	2	29	2	499	250	12	12	408	143
Drafting occupations	164	5	16	121	21	83	21	128	21	510	276	88	36
Surveying and mapping technicians	26	—	—	—	—	—	—	4	4	22	—	2	—
Science technicians	2 401	873	980	2 057	381	771	381	179	84	252	113	136	46
Biological technicians	1 806	710	716	1 610	268	608	268	38	15	52	10	28	5
Chemical technicians	133	31	44	89	26	47	26	59	37	106	9	44	3
Science technicians, n.e.c.	462	132	220	358	87	116	87	82	32	94	86	64	38
Technicians, except health, engineering, and science	857	319	225	613	52	160	52	603	195	241	112	438	66
Airplane pilots and navigators	92	1	—	27	—	—	—	38	—	—	—	6	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	20	5	—	—	8	8	8	—	—	—	7	2	—
Computer programmers	512	204	106	264	9	52	9	175	64	99	66	207	49
Tool programmers, numerical control	33	17	—	10	17	19	17	13	—	6	—	6	—
Legal assistants	38	38	109	312	18	—	18	370	124	13	13	—	—
Technicians, n.e.c.	162	54	109	312	18	—	18	370	124	13	13	—	—
Sales occupations	11 480	1 452	989	6 241	743	3 498	743	3 059	518	647	852	1 884	346
Supervisors and proprietors, sales occupations	1 702	65	80	624	20	230	20	178	20	44	14	42	14
Self-employed	1 700	65	80	602	10	228	10	178	20	37	9	42	14
Insurance sales occupations	2	—	—	22	—	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	135	51	9	29	9	9	9	37	13	—	—	24	11
Real estate sales occupations	5	—	—	—	—	—	—	6	—	—	—	6	6
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	130	51	9	29	9	9	9	31	13	—	—	18	5
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	8 801	783	677	5 286	447	2 930	447	2 758	444	576	675	1 774	307
Sales engineers	5	—	—	6	—	6	—	6	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	8 796	783	677	5 280	447	2 924	447	2 752	444	576	675	1 774	307
Sales workers, commodities	753	464	214	293	250	291	250	80	41	27	82	34	14
Sales counter clerks	46	2	—	9	—	1	—	20	—	—	8	4	—
Cashiers	546	321	214	270	243	276	243	48	41	27	19	22	6
Street and door-to-door sales workers	141	141	—	14	—	14	—	8	—	—	—	4	4
News vendors	20	—	—	—	—	—	—	6	—	—	—	—	—
Sales related occupations	89	89	9	9	27	38	27	6	—	—	—	10	—
Demonstrators, promoters and models, sales	89	89	9	9	27	38	27	6	—	—	—	—	—
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	26 113	17 821	15 016	20 712	4 143	6 014	4 143	7 792	5 370	17 558	12 835	9 701	7 053
Supervisors, administrative support occupations	1 777	502	491	1 425	157	380	157	532	118	419	400	761	228
Supervisors, general office	547	223	365	404	111	143	111	152	10	203	73	324	148
Supervisors, computer equipment operators	100	26	18	39	—	7	—	70	10	13	12	11	—
Supervisors, financial records processing	492	233	246	452	44	110	44	117	44	163	116	161	52
Chief communications operators	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks	618	20	56	516	2	120	2	184	24	410	64	265	28
Computer equipment operators	1 227	701	346	430	211	297	211	297	161	445	241	478	291
Computer operators	1 156	653	353	617	131	205	131	279	143	245	222	391	177
Peripheral equipment operators	71	48	13	13	6	6	6	18	18	12	19	87	20

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

		Food and kindred products—Con.				Textile mill products			
		Miscellaneous food preparations and kindred products		Not specified food industries		Tobacco manufactures		Knitting mills	
		Total	Female	Total	Female	Total	Female	Total	Female
		Total	Female	Total	Female	Total	Female	Total	Female
Beverage industries		6 782	6 691	1 714	1 690	2 243	2 209	2 977	2 930
		6 180	6 136	1 676	1 652	2 060	2 017	2 599	2 558
Bottling plants		547	530	38	38	186	181	346	340
Information clerks		750	704	165	150	183	160	400	383
Interviewers		46	39	23	23	11	11	75	75
Hotel clerks		31	11	5	—	6	—	24	14
Transportation ticket and reservation agents		642	623	121	121	130	130	279	279
Recreation and amusement clerks		31	31	10	6	36	19	22	15
Information clerks, n.e.c.		1 546	672	396	227	555	396	1 318	1 157
Records processing occupations, except financial		104	39	9	—	18	18	9	—
Classified-ad clerks		31	31	—	—	8	—	—	—
Over-the-counter clerks		562	271	148	75	101	53	511	462
Personal clerks, except payroll and timekeeping		86	68	60	51	64	64	133	126
Library clerks		723	230	179	101	344	233	621	527
File clerks		40	33	—	—	14	14	39	28
Records clerks		4 887	4 312	903	745	893	660	2 457	2 294
Financial records processing occupations		4 060	3 606	632	490	556	387	1 465	1 339
Bookkeepers, accounting, and auditing clerks		544	472	137	131	251	204	579	552
Payroll and timekeeping clerks		178	154	72	72	48	41	311	305
Billing clerks		78	53	29	29	10	8	81	77
Cost and rate clerks		27	27	33	23	28	28	21	21
Billing, posting, and calculating machine operators		39	17	—	—	40	12	49	35
Duplicating, mail, and other office machine operators		8	2	—	—	16	—	3	3
Duplicating machine operators		16	9	—	—	—	—	—	—
Mail recording and power handling machine operators		15	6	—	—	24	12	46	32
Office machine operators, n.e.c.		150	143	15	15	106	97	92	81
Communications equipment operators		144	137	15	15	106	97	92	81
Telephone operators		6	6	—	—	—	—	—	—
Telegraphers		—	—	—	—	—	—	—	—
Communications equipment operators, n.e.c.		414	109	105	31	127	68	126	76
Mail and message distributing occupations		—	—	—	—	—	—	—	—
Postal clerks, except mail carriers		298	63	66	7	99	52	116	76
Mail carriers, except postal service		116	46	39	24	28	16	10	17
Mail clerks, except postal service		—	—	—	—	—	—	—	—
Messengers		4 615	997	1 223	300	1 276	340	5 343	2 186
Material recording, scheduling, and distributing clerks		182	44	142	69	134	8	12	7
Dispatchers		966	205	224	67	385	52	814	553
Production coordinators		1 652	206	549	85	443	81	3 083	850
Traffic, shipping, and receiving clerks		1 518	427	421	87	511	110	998	541
Stock and inventory clerks		—	—	—	—	—	—	—	—
Meter readers		195	43	79	42	124	53	238	127
Weighers, measurers, and checkers		—	—	—	—	—	—	—	—
Samplers		85	55	12	7	41	34	171	86
Expeditors		—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.		17	17	20	10	7	2	27	22
Adjusters and investigators		219	110	82	43	71	26	198	164
Insurance adjusters, examiners, and investigators		153	81	64	29	57	19	165	143
Investigators and adjusters, except insurance		66	29	18	14	14	7	33	21
Eligibility clerks, social welfare		3 707	2 863	820	668	1 467	1 132	3 137	2 888
Bill and account collectors		2 228	1 728	574	444	1 033	829	2 305	2 145
Miscellaneous administrative support occupations		—	—	—	—	—	—	—	—
General office clerks		18	7	8	8	—	—	—	—
Bank tellers		845	797	165	165	176	171	603	585
Proofreaders		192	143	—	—	63	44	69	59
Data-entry keyers		3	3	—	—	—	—	—	—
Statistical clerks		471	188	—	—	—	—	—	—
Technical clerks		—	—	73	51	195	88	160	99
Administrative support occupations, n.e.c.		—	—	—	—	—	—	—	—
Technical, sales, and administrative support occupations—Con.		—	—	—	—	—	—	—	—
Administrative support occupations, including clerical—Con.		—	—	—	—	—	—	—	—
Secretaries, stenographers, and typists		—	—	—	—	—	—	—	—
Stenographers		—	—	—	—	—	—	—	—
Typists		—	—	—	—	—	—	—	—
Information clerks		—	—	—	—	—	—	—	—
Interviewers		—	—	—	—	—	—	—	—
Hotel clerks		—	—	—	—	—	—	—	—
Transportation ticket and reservation agents		—	—	—	—	—	—	—	—
Recreation and amusement clerks		—	—	—	—	—	—	—	—
Information clerks, n.e.c.		—	—	—	—	—	—	—	—
Records processing occupations, except financial		—	—	—	—	—	—	—	—
Classified-ad clerks		—	—	—	—	—	—	—	—
Over-the-counter clerks		—	—	—	—	—	—	—	—
Personal clerks, except payroll and timekeeping		—	—	—	—	—	—	—	—
Library clerks		—	—	—	—	—	—	—	—
File clerks		—	—	—	—	—	—	—	—
Records clerks		—	—	—	—	—	—	—	—
Financial records processing occupations		—	—	—	—	—	—	—	—
Bookkeepers, accounting, and auditing clerks		—	—	—	—	—	—	—	—
Payroll and timekeeping clerks		—	—	—	—	—	—	—	—
Billing clerks		—	—	—	—	—	—	—	—
Cost and rate clerks		—	—	—	—	—	—	—	—
Billing, posting, and calculating machine operators		—	—	—	—	—	—	—	—
Duplicating, mail, and other office machine operators		—	—	—	—	—	—	—	—
Duplicating machine operators		—	—	—	—	—	—	—	—
Mail recording and power handling machine operators		—	—	—	—	—	—	—	—
Office machine operators, n.e.c.		—	—	—	—	—	—	—	—
Communications equipment operators		—	—	—	—	—	—	—	—
Telephone operators		—	—	—	—	—	—	—	—
Telegraphers		—	—	—	—	—	—	—	—
Communications equipment operators, n.e.c.		—	—	—	—	—	—	—	—
Mail and message distributing occupations		—	—	—	—	—	—	—	—
Postal clerks, except mail carriers		—	—	—	—	—	—	—	—
Mail carriers, except postal service		—	—	—	—	—	—	—	—
Mail clerks, except postal service		—	—	—	—	—	—	—	—
Messengers		—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks		—	—	—	—	—	—	—	—
Dispatchers		—	—	—	—	—	—	—	—
Production coordinators		—	—	—	—	—	—	—	—
Traffic, shipping, and receiving clerks		—	—	—	—	—	—	—	—
Stock and inventory clerks		—	—	—	—	—	—	—	—
Meter readers		—	—	—	—	—	—	—	—
Weighers, measurers, and checkers		—	—	—	—	—	—	—	—
Samplers		—	—	—	—	—	—	—	—
Expeditors		—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.		—	—	—	—	—	—	—	—
Adjusters and investigators		—	—	—	—	—	—	—	—
Insurance adjusters, examiners, and investigators		—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance		—	—	—	—	—	—	—	—
Eligibility clerks, social welfare		—	—	—	—	—	—	—	—
Bill and account collectors		—	—	—	—	—	—	—	—
Miscellaneous administrative support occupations		—	—	—	—	—	—	—	—
General office clerks		—	—	—	—	—	—	—	—
Bank tellers		—	—	—	—	—	—	—	—
Proofreaders		—	—	—	—	—	—	—	—
Data-entry keyers		—	—	—	—	—	—	—	—
Statistical clerks		—	—	—	—	—	—	—	—
Technical clerks		—	—	—	—	—	—	—	—
Administrative support occupations, n.e.c.		—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.														
Food and kindred products—Con.				Tobacco manufactures				Textile mill products			Floor coverings, except hard surface			
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Total		Knitting mills		Dyeing and finishing textiles, except wool and knit goods		Total		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
6 992	1 462	7 319	1 743	4 622	2 134	2 718	596	3 284	687	1 995	309	1 848	198	
1 309	76	516	40	117	—	670	35	698	61	430	9	500	26	
68	15	30	—	16	—	13	—	12	—	20	—	16	—	
5	—	—	—	—	—	—	—	—	—	6	—	—	—	
63	15	30	—	16	—	13	—	12	—	14	—	16	—	
20	—	—	—	—	—	27	—	23	—	17	—	23	—	
9	—	—	—	—	—	21	—	17	—	17	—	23	—	
11	—	—	—	—	—	6	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1 221	61	486	40	101	—	630	35	686	61	393	9	461	26	
1 214	61	474	28	101	—	630	35	686	61	385	9	452	26	
7	—	12	—	—	—	—	—	—	—	—	—	—	—	
5 683	1 386	6 803	1 703	4 505	2 134	2 048	561	2 586	626	1 565	300	1 348	172	
611	336	2 295	1 056	3 087	1 872	122	72	78	65	49	41	26	26	
36	18	65	19	119	55	4	6	—	—	—	—	—	—	
55	14	3	3	159	129	3	3	15	9	—	—	5	5	
97	58	1 229	368	1 581	867	47	17	18	18	30	30	21	21	
207	104	44	16	11	—	—	—	5	—	—	—	—	—	
42	26	20	20	81	73	—	—	2	2	8	—	—	—	
41	30	455	307	343	248	8	8	—	—	—	—	—	—	
33	19	63	30	138	114	—	—	—	—	—	—	—	—	
100	67	358	244	655	375	54	38	38	36	11	11	—	—	
48	41	44	21	58	42	49	49	29	17	6	6	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
12	5	31	8	35	19	—	—	—	—	—	—	—	—	
36	36	13	13	23	23	49	49	22	17	6	6	—	—	
4 637	768	4 384	570	1 323	184	1 815	416	2 402	488	1 460	240	1 300	139	
94	—	85	—	33	8	35	—	13	—	15	—	15	—	
368	101	336	82	84	8	174	58	157	114	33	15	31	20	
4 120	662	3 869	482	1 175	165	1 452	348	2 204	362	1 344	225	1 247	119	
55	5	34	6	20	3	7	—	6	6	68	—	7	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
387	241	80	56	37	36	62	24	77	56	50	13	22	7	
4	—	—	—	1	—	18	—	—	—	8	—	9	—	
5	—	—	—	—	—	—	—	—	—	—	—	—	—	
6	6	—	—	—	—	—	—	—	—	—	—	—	—	
253	145	16	13	—	—	10	10	13	1	28	7	7	7	
—	—	—	—	—	—	—	—	—	—	—	—	6	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
119	90	4	2	—	—	5	5	8	8	—	—	—	—	
—	—	60	41	36	36	29	9	48	40	6	6	—	—	
204	13	389	69	35	9	158	13	36	15	32	6	45	15	
13	—	—	—	9	9	—	—	6	—	—	—	—	—	
168	6	130	23	26	—	43	—	23	8	18	6	38	8	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
143	—	115	15	26	—	43	—	17	2	18	6	30	—	
25	6	13	8	—	—	—	—	6	6	—	—	—	—	
—	—	2	—	—	—	—	—	—	—	—	—	8	8	

United States

Employed persons 16 years and over—Con.

Service occupations

Private household occupations

Protective service occupations

Supervisors, protective service occupations

Supervisors, firefighting and fire prevention occupations

Supervisors, police and detectives

Supervisors, guards

Freight and fire prevention occupations

Fire inspection and fire prevention occupations

Freight occupations

Police and detectives

Police and detectives, public service

Sheriffs, bailiffs, and other law enforcement officers

Correctional institution officers

Guards

Crossing guards

Guards and police, except public service

Protective service occupations, n.e.c.

Service occupations, except protective and household

Food preparation and service occupations

Supervisors, food preparation and service occupations

Bartenders

Waiters and waitresses

Cooks, except short order

Short-order cooks

Food counter, fountain and related occupations

Kitchen workers, food preparation

Waiters and waitresses assistants

Miscellaneous food preparation occupations

Health service occupations

Dental assistants

Health aides, except nursing

Nursing aides, orderlies, and attendants

Cleaning and building service occupations, except household

Supervisors, cleaning and building service workers

Maid and housemen

Janitors and cleaners

Elevator operators

Pest control occupations

Personal service occupations

Supervisors, personal service occupations

Barbers

Hairdressers and cosmetologists

Attendants, amusement and recreation facilities

Guides

Ushers

Public transportation attendants

Baggage porters and bellhops

Welfare service aides

Child care workers, except private household

Personal service occupations, n.e.c.

Farming, forestry, and fishing occupations

Farm operators and managers

Farm occupations, except managerial

Related agricultural occupations

Supervisors, related agricultural occupations

Groundskeepers and gardeners, except farm

Animal caretakers, except farm

Graders and sorters, agricultural products

Inspectors, agricultural products

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Manufacturing, nondurable goods—Con.									
	Food and kindred products—Con.					Textile mill products				
	Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Tobacco manufactures		Knitting mills	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.										
Forestry and logging occupations	12	7	15	2	—	—	93	13	7	7
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	12	7	14	2	—	—	16	13	—	—
Timber cutting and logging occupations	11	—	1	—	—	—	77	—	7	7
Fishers, hunters, and trappers	5	—	244	44	—	—	22	—	8	—
Captains and other officers, fishing vessels	6	—	189	44	—	—	—	—	6	—
Hunters and trappers	—	—	—	—	—	—	22	—	—	—
Precision production, craft, and repair occupations	29 825	979	24 566	5 178	6 487	1 147	11 990	—	—	—
Mechanics and repairers	11 943	180	5 966	1 790	1 503	21	5 065	1 074	22 109	4 801
Supervisors, mechanics and repairers	11 243	—	5 776	—	1 22	—	5 065	228	9 891	741
Mechanics and repairers, except supervisors	11 660	160	5 839	125	1 481	21	4 914	222	9 732	100
Vehicle and mobile equipment mechanics and repairers	1 741	16	574	—	13	—	61	735	3 016	94
Automobile mechanics	1 195	16	350	—	70	—	39	—	21	—
Auto, truck, and stationary engine mechanics	370	—	111	—	20	—	—	—	9	—
Aircraft mechanics	7	—	6	—	—	—	—	—	16	—
Small engine mechanics	—	—	—	—	—	—	—	—	—	—
Automobile body and related repairers	26	—	10	—	4	—	—	—	—	—
Aircraft mechanics, except engine	—	—	8	—	2	—	—	—	—	—
Heavy equipment mechanics	143	—	70	—	36	—	15	—	—	—
Farm equipment mechanics	—	—	19	—	—	—	—	—	—	—
Industrial machinery repairers	4 428	48	2 843	88	777	8	2 754	59	8 092	412
Machinery maintenance occupations	523	25	142	9	6	—	296	19	91	6
Electrical and electronic equipment repairers	86	—	70	—	6	—	32	7	35	—
Electronic repairers, communications and industrial equipment	45	—	35	—	—	—	15	—	6	—
Data processing equipment repairers	6	—	16	—	6	—	5	—	9	—
Household appliance and power tool repairers	5	—	—	—	—	—	—	—	14	—
Telephone line installers and repairers	5	—	—	—	—	—	12	7	—	—
Telephone installers and repairers	—	—	—	—	—	—	—	—	—	—
Miscellaneous electrical and electronic equipment repairers	25	—	14	—	—	—	—	—	20	—
Heating, air conditioning, and refrigeration mechanics	324	—	206	6	16	—	93	—	13	—
Miscellaneous mechanics and repairers	4 558	71	2 004	22	583	13	1 678	137	39	—
Camera, watch, and musical instrument repairers	9	—	3	—	5	—	176	82	629	7
Locksmiths and safe repairers	—	—	—	—	—	—	—	—	13	—
Office machine repairers	8	—	6	—	—	—	—	—	8	—
Mechanical controls and valve repairers	12	—	—	—	—	—	—	—	—	—
Elevator installers and repairers	11	—	—	—	—	—	—	—	—	—
Millwrights	302	5	208	6	70	—	6	—	6	—
Specified mechanics and repairers, n.e.c.	2 361	31	426	6	173	6	184	19	72	16
Not specified mechanics and repairers	1 855	35	1 106	16	285	7	625	36	731	264
Construction trades	3 002	36	1 305	17	275	5	1 012	2	652	52
Supervisors, construction occupations	212	—	44	—	2	—	64	—	33	7
Supervisors, brickmasons, stonemasons, and tile setters	—	—	2	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	8	—	2	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	68	—	10	—	—	—	37	—	12	—
Supervisors, painters, paperhangers, and plasterers	15	—	—	—	—	—	—	—	9	—
Supervisors, plumbers, pipefitters, and steamfitters	121	—	30	—	2	—	27	—	—	—
Supervisors, n.e.c.	2 790	36	1 261	17	273	5	948	2	619	45
Construction trades, except supervisors	—	—	20	—	3	—	6	—	8	—
Brickmasons and stonemasons	—	—	6	—	—	—	—	—	—	—
Tile setters, floor and soft	—	—	—	—	—	—	—	—	—	—
Carpet installers	—	—	—	—	—	—	—	—	—	—
Carpenters	353	—	229	12	24	—	—	—	4	—
Drywall installers	—	—	—	—	—	—	—	—	184	—
Electricians	1 405	22	595	—	177	—	5	—	363	7
Electrical power installers and repairers	6	—	—	—	—	—	2	—	10	—
Painters, construction and maintenance	274	6	167	5	25	—	—	—	357	—
Paperhangers	—	—	—	—	—	—	23	—	44	—
Floor coverings, except hard surface	—	—	—	—	—	—	—	—	—	—
Dyeing and finishing textiles, except wool and knit goods	—	—	—	—	—	—	—	—	—	—
Knitting mills	—	—	—	—	—	—	—	—	—	—
Tobacco manufactures	—	—	—	—	—	—	—	—	—	—
Food and kindred products—Con.	—	—	—	—	—	—	—	—	—	—
Beverage industries	—	—	—	—	—	—	—	—	—	—
Miscellaneous food preparations and kindred products	—	—	—	—	—	—	—	—	—	—
Not specified food industries	—	—	—	—	—	—	—	—	—	—
Tobacco manufactures	—	—	—	—	—	—	—	—	—	—
Knitting mills	—	—	—	—	—	—	—	—	—	—
Dyeing and finishing textiles, except wool and knit goods	—	—	—	—	—	—	—	—	—	—
Textile mill products	—	—	—	—	—	—	—	—	—	—
Floor coverings, except hard surface	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.

United States	Food and kindred products—Con.				Textile mill products									
	Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Tobacco manufactures		Knitting mills		Dyeing and finishing textiles, except wool and knit goods		Floor coverings, except hard surface	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Construction trades—Con.														
Construction trades, except supervisors—Con.														
Plasterers	588	8	207	5	252	—	85	—	106	—	43	—		
Plumbers, pipefitters, and steamfitters	6	—	—	—	—	—	4	—	—	—	—	—		
Concrete and masonry finishers	20	—	13	—	8	—	—	—	—	—	—	—		
Glaziers	—	—	—	—	—	—	—	—	—	—	—	—		
Insulation workers	—	—	—	—	—	—	—	—	—	—	—	—		
Paving, surfacing, and tamping equipment operators	5	—	6	—	10	—	7	—	6	—	—	—		
Roofters	42	—	16	—	—	—	—	—	—	—	—	—		
Sheetmetal duct installers	—	—	—	—	—	—	—	—	—	—	—	—		
Structural metal workers	70	—	2	—	22	—	6	—	2	—	10	—		
Drillers, earth	13	—	35	—	—	—	7	—	—	—	90	—		
Construction trades, n.e.c.	6	—	27	—	—	—	7	—	—	—	11	—		
Extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—		
Supervisors, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—		
Drillers, oil well	7	—	2	—	22	—	—	—	2	—	56	—		
Explosives workers	—	—	6	—	—	—	—	—	—	—	23	—		
Mining machine operators	—	—	—	—	—	—	—	—	—	—	—	—		
Mining occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—		
Precision production occupations	14 907	783	17 260	5 031	5 891	844	11 569	4 014	5 250	629	4 635	648		
Supervisors, production occupations	11 810	693	9 601	578	4 287	671	9 698	3 097	4 360	454	3 952	551		
Precision metalworking occupations	1 808	18	1 191	84	1 318	80	836	140	523	40	456	24		
Tool and die makers	44	—	19	—	16	—	18	—	42	—	8	—		
Precision assemblers, metal	7	—	4	—	—	—	7	—	—	—	—	—		
Machinists	1 623	18	954	77	1 054	67	700	106	398	26	332	8		
Boilermakers	64	—	40	—	15	—	32	—	8	—	42	—		
Precision grinders, filers, and tool sharpeners	—	—	80	—	2	—	5	—	—	—	5	—		
Patternmakers and model makers, metal	—	—	9	—	7	—	14	—	6	—	—	—		
Lay-out workers	—	—	7	—	7	—	22	—	6	—	39	—		
Precious stones and metals workers (jewelers)	—	—	—	—	12	—	8	—	—	—	—	—		
Engravers, metal	—	—	15	—	—	—	17	—	60	—	6	—		
Sheet metal workers	70	—	63	—	205	6	11	—	9	—	23	—		
Miscellaneous precision metal workers	—	—	—	—	—	—	2	—	—	—	—	—		
Precision woodworking occupations	12	5	—	—	—	—	23	—	8	—	—	—		
Patternmakers and model makers, wood	—	—	—	—	—	—	7	—	—	—	—	—		
Cabinet makers and bench carpenters	12	5	—	—	—	—	—	—	8	—	—	—		
Furniture and wood finishers	—	—	—	—	—	—	16	—	—	—	—	—		
Miscellaneous precision woodworkers	6	—	39	30	24	24	892	717	132	101	82	45		
Precision textile, apparel, and furnishings machine workers	—	—	16	16	24	24	605	579	59	52	16	16		
Dressmakers	6	—	9	9	—	—	126	41	26	13	32	19		
Tailors	—	—	2	—	—	—	7	—	5	—	—	—		
Upholsterers	—	—	—	—	—	—	5	—	2	—	2	—		
Shoe repairs	—	—	12	5	—	—	108	60	8	—	9	—		
Apparel and fabric patternmakers	—	—	—	—	—	—	41	29	32	31	23	8		
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	—	—	—	—	—	—		
Precision workers, assorted materials	108	7	7	—	13	—	16	5	42	13	33	20		
Hand molders and shapers, except jewelers	6	—	—	—	7	—	3	—	—	—	17	12		
Patternmakers, lay-out workers, and cutters	7	—	—	—	7	—	2	—	—	—	8	—		
Optical goods workers	—	—	—	—	—	—	—	—	—	—	—	—		
Dental laboratory and medical appliance technicians	—	—	—	—	—	—	—	—	—	—	—	—		
Bookbinders	—	—	—	—	—	—	—	—	—	—	—	—		
Electrical and electronic equipment assemblers	4	—	—	—	—	—	11	—	5	—	8	8		
Miscellaneous precision workers, n.e.c.	91	—	7	—	6	—	—	—	37	8	—	—		
Precision food production occupations	229	44	5 454	3 310	1 057	494	6	6	5	—	16	8		
Butchers and meat cutters	96	11	3 449	2 325	412	125	—	—	5	—	16	8		
Bakers	89	14	291	84	354	193	6	6	—	—	—	—		
Food batchmakers	44	19	1 632	901	—	—	—	—	—	—	—	—		
Precision inspectors, testers, and related workers	33	13	—	—	12	—	27	20	16	9	29	—		
Inspectors, testers, and graders	33	13	—	—	—	—	27	20	16	9	29	—		
Adjusters and calibrators	—	—	—	—	—	—	—	—	—	—	—	—		

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and masonry finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofters

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairs

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

OCCUPATION BY INDUSTRY

1980—Con.

Numbers are estimates based on a sample. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

[illegible]

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

United States

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.

Handlers, equipment cleaners, helpers, and laborers

Supervisors, handlers, equipment cleaners, and laborers, n.e.c.

Helpers, mechanics and repairers

Helpers, construction and extractive occupations

Helpers, construction trades

Helpers, surveyor

Helpers, extractive occupations

Construction laborers

Production helpers

Freight, stock, and material handlers

Garbage collectors

Stereos

Stock handlers and baggers

Machine feeders and offbearers

Freight, stock, and material handlers, n.e.c.

Garage and service station related occupations

Vehicle washers and equipment cleaners

Hand packers and packagers

Laborers, except construction

Manufacturing, nondurable goods—Con.

Food and kindred products—Con.

Miscellaneous food preparations and kindred products

Not specified food industries

Tobacco manufactures

Kilting mills

Dyeing and finishing textiles, except wool and knit goods

Floor coverings, except hard surface

Table 4 Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A.]

Manufacturing, nondurable goods—Con.

United States

	Total		Female		Total	Female		Total	Female		Total	Female		Total	Female	
	Male	Female	Male	Female		Male	Female		Male	Female		Male	Female		Male	Female
Employed persons 16 years and over	577 913	261 637	59 988	22 337	1 162 093	928 840	138 268	88 777	305 298	49 524	181 503	62 337	193 120	50 685		
Managerial and professional specialty occupations	38 935	8 034	6 018	979	66 508	26 257	13 260	4 481	30 578	4 133	22 253	4 011	20 241	3 001		
Executive, administrative, and managerial occupations	28 769	4 756	4 625	714	52 606	17 513	10 890	3 290	20 392	2 909	16 523	2 862	16 051	2 388		
Legislators, chief executives, and general administrators; public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Federal	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
State	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Local	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Administrators, protective services	-	-	-	-	-	-	-	-	2	-	-	-	-	-		
Financial managers	905	172	254	52	2 266	719	343	127	944	115	800	158	718	97		
Personnel and labor relations managers	1 423	348	209	45	1 685	847	218	91	830	159	411	113	612	189		
Purchasing managers	178	12	21	3	52	36	68	3	240	23	215	36	90	22		
Managers, marketing, advertising, and public relations	1 872	146	462	24	1 094	1 094	983	195	1 973	116	2 227	188	2 333	5		
Administrators, education and related fields	572	13	7	-	65	41	7	7	9	-	7	-	10	5		
Managers, medicine and health	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Managers, properties and real estate	12	-	-	-	8	-	7	7	21	-	-	-	7	-		
Postmasters and mail superintendents	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Federal directors	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Managers and administrators, n.e.c.	18 549	2 412	2 757	305	36 082	10 137	7 956	2 321	10 309	800	9 194	1 037	9 112	785		
Managers	17 887	2 175	2 661	284	32 911	8 906	6 296	1 598	10 155	763	9 100	1 031	8 949	769		
Self-employed	662	237	96	21	3 171	1 231	1 660	723	134	35	94	6	163	16		
Management related occupations	5 778	1 653	915	288	8 232	4 623	1 368	539	6 064	1 696	3 469	1 330	3 169	1 063		
Accountants and auditors	2 518	831	499	193	3 303	1 617	642	239	2 796	867	1 804	682	1 660	633		
Underwriters	-	-	-	-	7	-	-	-	-	-	-	-	-	-		
Other financial officers	312	103	16	-	315	160	49	14	302	51	128	51	97	39		
Management related occupations	91	39	39	16	174	86	16	31	162	31	106	19	98	28		
Personnel, training, and labor relations specialists	1 878	496	181	25	2 383	1 755	272	112	1 165	372	758	255	519	146		
Purchasing agents and buyers, farm products	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Buyers, wholesale and retail trade except farm products	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Purchasing agents and buyers, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Business and promotion agents	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Construction inspectors	842	192	170	60	1 922	919	301	146	1 565	354	826	306	722	194		
Inspectors and compliance officers, except construction	11	-	4	-	33	11	-	-	9	7	9	5	6	-		
Management related occupations, n.e.c.	85	31	10	10	67	60	28	28	33	9	15	12	29	19		
Professional specialty occupations	10 166	3 278	1 393	265	13 902	8 744	2 370	1 191	10 186	1 224	5 730	1 149	4 190	613		
Engineers, architects, and surveyors	4 406	493	773	48	2 640	666	605	86	5 718	235	3 072	209	2 042	176		
Architects	36	-	6	-	22	-	-	-	7	-	-	-	-	-		
Engineers	4 370	493	767	48	2 611	666	598	86	5 661	235	3 064	209	2 042	176		
Aerospace engineers	13	-	1	-	20	3	7	-	2	-	-	-	-	-		
Metallurgical and materials engineers	8	-	-	-	3	3	-	-	51	-	10	6	-	-		
Mining engineers	-	-	-	-	8	-	-	-	-	-	-	-	-	-		
Petroleum engineers	7	-	-	-	7	-	-	-	9	-	-	-	-	-		
Chemical engineers	190	19	58	-	19	6	7	-	540	24	220	6	32	2		
Nuclear engineers	6	-	18	-	40	-	5	-	255	-	55	7	43	-		
Civil engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Agricultural engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Electrical and electronic engineers	167	11	27	-	35	6	6	-	547	13	109	-	82	-		
Industrial engineers	2 171	411	299	46	1 889	563	311	86	1 046	123	852	113	977	148		
Mechanical engineers	913	17	129	2	304	21	117	-	779	-	610	16	318	-		
Marine engineers and naval architects	5	-	-	-	-	-	-	-	3	-	6	-	-	-		
Engineers, n.e.c.	829	35	235	-	286	47	145	-	2 429	75	1 202	61	640	26		
Surveyors and mapping scientists	-	-	-	-	7	-	-	-	50	-	8	-	-	-		
Mathematical and computer scientists	646	131	118	25	544	184	98	56	760	138	448	118	315	39		
Computer systems analysts and scientists	357	61	67	6	393	122	54	48	400	58	310	76	172	15		
Operations and systems researchers and analysts	234	44	38	6	151	62	42	6	290	56	102	20	98	2		
Actuaries	-	-	-	-	-	-	-	-	-	-	-	-	8	-		
Statisticians	-	-	-	-	-	-	-	-	-	-	-	-	31	7		
Mathematical scientists, n.e.c.	55	26	13	13	-	-	2	2	59	24	17	15	37	22		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Manufacturing, nondurable goods—Con.											
Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products			
Yarn, thread, and fabric mills		Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
644	120	170	7	94	26	28	4	2 074	118	541	89
10	10	159	7	89	26	23	4	840	80	460	76
620	5	5	—	—	—	—	—	6	6	—	—
5	—	—	—	—	—	—	—	25	7	—	—
5	—	—	—	—	—	5	—	60	8	14	8
17	11	6	—	5	—	—	—	1 110	26	63	—
—	—	—	—	—	—	—	—	5	5	—	—
12	—	2	2	14	8	7	—	22	—	—	—
12	—	2	2	8	8	—	—	22	—	—	—
—	—	—	—	—	—	7	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
641	586	76	76	104	83	35	35	437	431	113	106
629	580	76	76	79	71	35	35	434	431	113	106
6	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	5	5	—	—	—	—	—	—
—	—	—	—	13	7	—	—	—	—	—	—
—	6	—	—	—	—	—	—	3	—	—	—
121	69	10	10	68	55	—	—	9	—	8	2
1 037	637	58	48	1 317	1 131	135	128	43	8	49	8
13	—	—	—	5	5	—	—	—	—	8	—
—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	17	—	135	128	43	8	—	—
1 018	637	58	48	1 295	1 126	—	—	—	—	41	8
5	—	—	—	12	5	6	6	36	36	33	33
30	18	—	—	7	5	6	6	36	36	33	33
30	18	—	—	5	5	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
221	51	34	—	232	82	56	34	163	46	223	75
200	49	34	—	226	82	46	24	163	46	223	75
21	2	—	—	6	—	10	10	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
25	8	6	—	50	2	—	—	27	2	15	15
19	8	6	—	2	2	—	—	—	—	15	15
6	—	—	—	5	—	—	—	2	—	—	—
—	—	—	—	43	—	—	—	18	7	—	—
—	—	—	—	—	—	—	—	7	—	—	—
90	22	14	—	115	17	13	7	121	13	60	—
90	22	14	—	115	17	13	7	121	13	60	—
2 268	1 143	132	49	8 707	6 480	1 387	835	740	197	1 148	494
2	—	—	—	20	17	—	—	12	—	—	—
28	16	—	—	20	20	21	13	37	12	34	22
1 743	923	91	24	7 824	5 983	999	556	295	37	463	185
8	—	—	—	18	21	8	—	—	—	—	—
9	4	—	—	17	10	—	—	7	—	6	—
180	74	13	13	394	268	336	213	100	53	448	176
21	6	6	4	16	—	15	2	11	—	30	—
—	—	8	8	—	—	—	—	—	—	—	—
34	10	7	—	78	47	33	26	22	8	30	28
47	34	66	—	66	66	7	7	109	37	72	56
160	59	7	—	225	137	38	18	173	45	65	27
16	12	—	—	9	9	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con.

Natural scientists	—
Physicists and astronomers	—
Chemists	—
Atmospheric and space scientists	—
Geologists and geodesists	—
Physical scientists, n.e.c.	—
Agricultural and food scientists	—
Biological and life scientists	—
Forestry and conservation scientists	—
Medical scientists	—
Health diagnosing occupations	—
Physicians	—
Veterinarians	—
Optometrists	—
Podiatrists	—
Health diagnosing practitioners, n.e.c.	—
Health assessment and treating occupations	—
Registered nurses	—
Pharmacists	—
Dietitians	—
Therapists	—
Physicians' assistants	—
Teachers, postsecondary	—
Teachers, except postsecondary	—
Teachers, prekindergarten and kindergarten	—
Teachers, elementary and secondary school	—
Teachers, special education	—
Teachers, n.e.c.	—
Counselors, educational and vocational	—
Librarians, archivists, and curators	—
Literarians	—
Archivists and curators	—
Social scientists and urban planners	—
Economists	—
Psychologists	—
Sociologists	—
Social scientists, n.e.c.	—
Urban planners	—
Social, recreation, and religious workers	—
Social workers	—
Recreation workers	—
Clergy	—
Religious workers, n.e.c.	—
Lawyers and judges	—
Lawyers	—
Judges	—
Writers, artists, entertainers, and athletes	—
Authors	—
Technical writers	—
Designers	—
Musicians and composers	—
Actors and directors	—
Painters, sculptors, craft-artists, and artist printmakers	—
Photographers	—
Dancers	—
Artists, performers, and related workers, n.e.c.	—
Editors and reporters	—
Public relations specialists	—
Announcers	—
Athletes	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products			
		Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	Technical, sales, and administrative support occupations	67 169	38 902	9 577	5 435	123 126	80 328	19 091	12 077	48 144	21 804	31 380	15 756
	Technicians and related support occupations	9 289	3 746	1 207	452	2 934	1 520	657	241	9 881	1 613	1 861	526
	Health technicians and technicians	215	171	4	4	49	43	—	—	127	6	37	13
	Clinical laboratory technicians and technicians	43	32	—	—	10	4	—	—	36	6	7	—
	Dental hygienists	26	—	—	—	—	—	—	—	—	—	—	—
	Health record technicians	—	—	—	—	—	—	—	—	—	—	—	—
	Radiologic technicians	—	—	—	—	—	—	—	—	—	—	—	—
	Licensed practical nurses	101	101	—	—	27	27	—	—	8	8	7	7
	Health technicians and technicians, n.e.c.	45	38	4	4	12	12	—	—	44	44	23	6
	Engineering and related technicians and technicians	5 047	2 487	616	281	1 244	717	427	175	1 977	923	1 058	294
	Electrical and electronic technicians	375	30	31	3	109	12	38	9	6 493	217	54	6
	Industrial engineering technicians	547	216	21	3	263	135	73	9	1 627	274	7	6
	Mechanical engineering technicians	87	—	—	—	19	5	23	—	96	4	17	—
	Engineering technicians, n.e.c.	3 566	2 153	513	278	473	351	246	142	3 191	558	641	259
	Drafting occupations	459	88	51	—	380	214	47	—	738	63	291	22
	Surveying and mapping technicians	13	—	—	—	—	—	—	—	59	8	13	—
	Science technicians	1 114	463	250	78	309	224	62	16	1 173	211	167	51
	Biological technicians	274	130	23	6	66	42	6	—	208	23	33	13
	Chemical technicians	435	104	23	25	69	57	20	—	426	104	42	11
	Science technicians, n.e.c.	405	229	154	53	174	125	36	16	359	84	92	27
	Technicians, except health, engineering, and science	2 913	625	337	89	1 332	536	168	50	2 377	421	599	168
	Airplane pilots and navigators	55	—	29	—	33	—	—	—	96	—	27	—
	Air traffic controllers	23	2	—	—	6	6	5	—	34	14	4	—
	Broadcast equipment operators	784	243	138	41	931	379	95	35	647	174	277	123
	Computer programmers	36	5	7	—	23	6	—	—	6	—	7	—
	Tool programmers, numerical control	34	23	5	—	40	31	6	—	30	19	—	—
	Legal assistants	1 981	352	163	48	299	114	62	15	1 564	214	284	45
	Technicians, n.e.c.	8 156	1 727	1 429	273	25 673	9 615	3 790	1 244	5 479	883	8 368	1 251
	Sales occupations	602	137	112	22	2 573	1 230	308	122	310	79	333	33
	Supervisors and proprietors, sales occupations	566	137	126	21	2 402	1 161	234	84	291	20	328	33
	Salaried	36	—	14	—	171	69	74	38	19	8	5	—
	Self-employed	54	29	15	8	96	70	15	15	36	13	14	—
	Sales representatives, finance and business services	—	—	—	—	—	—	—	—	—	—	—	—
	Insurance sales occupations	—	—	—	—	37	23	—	—	17	—	6	—
	Real estate sales occupations	25	7	7	—	—	—	—	—	5	—	—	—
	Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
	Advertising and related sales occupations	29	22	8	8	59	47	15	15	14	8	8	—
	Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—
	Sales representatives, commodities, except retail	7 124	1 332	1 236	225	22 097	7 578	3 359	1 047	4 961	695	7 909	1 184
	Sales engineers	41	—	14	—	32	—	43	—	50	—	41	—
	Sales representatives, mining, manufacturing, and wholesale	7 083	1 322	1 222	225	22 065	7 578	3 316	1 047	4 911	695	7 868	1 184
	Sales workers, retail and personal services	362	229	17	18	41	697	72	24	138	96	107	34
	Sales workers, commodities	9	—	—	—	27	15	12	—	12	6	35	—
	Sales counter clerks	7	—	—	—	41	15	12	—	7	—	6	—
	Cashiers	214	178	22	13	688	633	34	17	62	55	4	4
	Street and door-to-door sales workers	43	28	8	5	71	31	7	5	22	22	55	23
	News vendors	89	23	5	—	34	18	2	—	35	21	13	7
	Sales related occupations	14	—	—	—	46	40	36	—	—	—	5	—
	Demonstrators, promoters and models, sales	—	—	—	—	26	26	36	—	—	—	—	—
	Auctioneers	—	—	—	—	6	—	—	—	—	—	—	—
	Sales support occupations, n.e.c.	14	—	—	—	14	—	—	—	—	—	—	—
	Administrative support occupations, including dental	49 724	33 429	6 941	4 710	94 519	69 193	14 644	10 592	32 784	19 308	21 151	13 959
	Supervisors, administrative support occupations	2 843	814	496	159	6 432	3 307	1 052	421	2 042	626	1 933	648
	Supervisors, general office	1 231	477	167	78	2 789	1 712	443	266	557	191	376	173
	Supervisors, computer equipment operators	71	27	13	6	206	84	35	17	88	17	37	6
	Supervisors, financial records processing	441	218	92	34	981	775	181	54	508	150	423	204
	Supervisors, communications operators	—	—	—	—	2	—	12	—	—	—	2	—
	Chief communications operators	26	—	—	—	—	—	—	—	—	—	—	—
	Supervisors, distribution, scheduling, and adjusting clerks	1 074	90	224	41	2 454	736	381	84	889	68	1 042	59
	Computer equipment operators	1 533	768	240	182	2 444	1 635	257	202	1 157	378	667	526
	Computer operators	1 394	653	226	168	2 422	1 457	243	188	1 015	525	626	496
	Peripheral equipment operators	139	115	14	14	222	178	14	14	142	25	41	30

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States		Manufacturing, nondurable goods—Con.									
		Textile mill products—Con.		Apparel and other finished textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes	
		Total		Total		Total		Total		Total	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Yarn, thread, and fabric mills		10 380	10 203	13 296	13 015	8 393	8 302	5 849	5 819	4 755	4 728
Technical, sales, and administrative support occupations—Con.		9 232	9 088	11 623	11 391	7 490	7 433	5 163	5 155	4 240	4 233
Administrative support occupations, including clerical—Con.		1 121	1 121	71	71	125	118	43	43	18	18
Secretaries, stenographers, and typists—		1 027	994	1 602	1 553	778	751	643	621	477	477
Stenographers		785	709	2 389	2 293	639	557	539	507	573	533
Typists		93	85	316	280	45	31	86	77	31	31
Information clerks											
Interviewers											
Hotel clerks		56	28	69	54	70	29	18	18	14	6
Transportation ticket and reservation agents		578	558	1 926	1 881	442	436	398	392	521	519
Receptionists		58	38	78	78	72	61	37	20	7	7
Information clerks, n.e.c.											
Records processing occupations, except financial		3 251	2 243	6 640	5 377	1 030	964	1 495	997	1 382	988
Classified clerks											
Correspondence clerks		12	12	44	44	25	25	109	95	280	210
Order clerks		1 174	715	3 410	2 551	68	44	759	464	597	359
Personal clerks, except payroll and timekeeping		428	415	321	303	190	175	58	52	60	60
Library clerks		15	17	10	8	5	5	5	5	5	5
File clerks		1 569	1 041	2 632	2 280	668	296	509	345	481	340
Records clerks		53	53	206	184	16	16	52	33	8	8
Financial records processing occupations		6 254	5 540	17 485	16 028	3 884	3 198	3 188	2 853	3 887	3 477
Bookkeepers, accounting, and auditing clerks		3 692	3 255	11 441	10 436	2 500	2 086	2 461	2 041	2 461	2 204
Payroll and timekeeping clerks		1 589	1 468	4 012	3 870	679	505	422	381	750	677
Billing clerks		605	550	1 469	1 253	263	247	370	336	554	511
Cost and rate clerks		285	202	403	340	28	106	121	80	94	31
Billing, posting, and calculating machine operators		83	65	160	129	7	7	15	15	28	24
Duplicating, mail, and other office machine operators		126	60	396	325	10	5	268	206	56	26
Duplicating machine operators		12	5	110	59	36	30	22	22	28	13
Mail preparing and paper handling machine operators		39	13	53	46	26	24	47	47	28	13
Office machine operators, n.e.c.		75	42	233	220	76	35	199	137	28	13
Communications equipment operators		363	319	500	495	229	191	176	168	114	107
Telephone operators		325	298	493	492	225	191	176	168	104	102
Telegraphers		38	21	7	2	4	4	—	—	10	5
Communications equipment operators, n.e.c.											
Mail and message distributing occupations		483	152	878	330	170	62	253	130	188	94
Postal clerks, except mail carriers											
Mail carriers, except postal service		383	126	618	256	407	162	242	125	142	77
Mail carriers, except postal service		100	26	280	74	81	10	11	5	46	17
Messengers		13 672	4 580	28 255	12 462	3 875	1 306	6 450	1 937	4 751	1 187
Material recording, scheduling, and distributing clerks											
Dispatchers		117	72	17	9	69	341	38	25	30	360
Production coordinators		2 411	1 328	3 331	2 182	478	233	1 013	406	939	360
Traffic, shipping, and receiving clerks		6 080	1 431	17 741	6 379	2 303	553	3 222	607	2 385	316
Stock and inventory clerks		3 539	1 096	5 380	2 597	760	291	1 543	548	1 047	357
Meter readers											
Weighers, measurers, and checkers		863	293	844	612	152	113	265	121	156	55
Samplers		38	15	25	18	18	18	123	89	10	10
Expeditors		472	243	583	449	136	80	238	139	172	77
Material recording, scheduling, and distributing clerks, n.e.c.											
Adjusters and investigators		132	102	314	219	21	11	8	2	12	12
Insurance adjusters, examiners, and investigators		671	441	1 316	1 071	135	116	529	269	378	202
Investigators and adjusters, except insurance		522	332	965	806	100	164	483	232	317	162
Eligibility clerks, social welfare		13	7	6	6	20	20	—	—	—	—
Bill and account collectors		136	102	345	259	15	15	46	37	61	40
Miscellaneous administrative support occupations		9 363	7 600	14 288	12 855	2 081	1 874	3 439	2 807	2 467	1 657
General office clerks		6 883	5 739	10 333	9 318	1 581	1 380	1 991	1 654	1 545	1 251
Bank tellers											
Proofreaders		21	19	22	22	—	—	112	105	—	—
Date-entry keyers		1 468	1 297	2 493	2 436	352	339	741	702	478	268
Statistical clerks		301	214	521	390	67	67	195	138	175	16
Teachers' aides		14	9	—	—	—	—	8	8	15	15
Administrative support occupations, n.e.c.		676	322	919	689	131	88	392	200	333	73

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A]

United States

Yarn, thread, and fabric mills	Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con.														
Service occupations	17 323	3 650	1 517	203	14 701	4 275	1 676	393	9 056	1 161	3 590	590	3 433	429
Private household occupations	2 431	111	354	15	2 040	110	192	—	2 122	161	579	38	373	32
Protective service occupations	42	—	—	—	8	—	—	—	36	—	17	—	—	—
Supervisors, protective service occupations	5	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	37	—	—	—	8	—	—	—	35	—	17	—	—	—
Supervisors, police and detectives	53	—	—	—	7	—	—	—	203	—	8	—	6	—
Supervisors, guards	38	—	—	—	—	—	—	—	141	—	8	—	6	—
Firefighting and fire prevention occupations	15	—	—	—	7	—	—	—	62	—	—	—	—	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	2 536	111	354	15	2 025	102	192	—	1 848	161	554	38	367	32
Guards	2 514	102	354	15	2 025	102	192	—	1 840	153	554	38	367	32
Crossing guards	5	—	—	—	—	—	—	—	8	—	—	—	—	—
Guards and police, except public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	14 692	3 539	1 163	188	12 661	4 165	1 484	393	6 934	1 000	3 011	552	3 060	397
Food preparation and service occupations	490	360	19	19	303	335	41	25	319	92	175	119	146	86
Supervisors, food preparation and service occupations	40	22	—	—	15	16	6	—	23	16	9	—	2	2
Bartenders	9	3	—	—	55	85	6	—	6	4	—	—	31	6
Waiters and waitresses	93	93	—	—	94	105	23	16	239	44	59	31	67	38
Cooks, except short order	208	132	—	—	156	105	—	—	—	—	—	—	5	5
Short-order cooks	5	—	—	—	6	8	—	—	—	—	7	7	—	—
Food counter, fountain and related occupations	53	51	—	—	16	—	—	—	—	—	—	—	2	2
Kitchen workers, food preparation	22	13	—	—	27	2	—	—	—	—	20	20	2	—
Waiters' and waitresses' assistants	—	—	—	—	134	113	10	7	49	28	80	61	39	33
Miscellaneous food preparation occupations	60	45	19	19	165	158	—	—	63	63	20	10	10	10
Health service occupations	69	65	—	—	3	—	—	—	—	—	—	—	—	—
Dental assistants	—	—	—	—	152	147	—	—	63	63	6	6	—	—
Health aides	8	8	—	—	3	—	—	—	—	—	—	—	—	—
Nursing aides, orderlies, and attendants	61	57	—	—	166	2 996	—	—	6 446	825	2 739	383	2 859	289
Cleaning and building service occupations, except household	13 490	2 917	1 120	166	11 153	2 996	1 392	317	6 446	825	2 739	383	2 859	289
Supervisors, cleaning and building service workers	91	5	19	20	96	26	3	—	144	10	53	13	44	8
Maid and houseman	797	384	77	7	1 050	593	148	42	279	80	138	35	164	28
Janitors and cleaners	12 265	2 487	1 000	129	9 778	2 354	1 224	275	5 990	785	2 514	328	2 625	253
Elevator operators	334	38	24	10	232	23	17	—	2	—	54	7	24	—
Pest control occupations	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations	643	197	24	3	840	676	51	51	106	20	57	40	45	12
Supervisors, personal service occupations	69	11	—	—	16	—	—	—	—	—	8	8	2	—
Barbers	8	6	—	—	7	—	—	—	—	—	—	—	—	—
Hairdressers and cosmetologists	15	15	—	—	19	11	6	6	2	2	—	—	2	—
Attendants, amusement and recreation facilities	423	68	24	3	22	14	2	2	8	6	18	18	24	5
Guides	19	16	—	—	6	—	—	—	48	2	5	—	—	—
Ushers	—	—	—	—	—	—	—	—	3	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	14	—	—	—	6	6	—	—	—	—	13	7	2	2
Welfare service aides	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	8	2	—	—	49	49	9	9	19	3	4	—	5	5
Personal service occupations, n.e.c.	87	79	—	—	697	590	27	27	26	7	9	7	10	—
Farming, forestry, and fishing occupations	351	54	72	21	108	41	26	8	1 282	97	183	7	112	27
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Related agricultural occupations	298	30	29	—	67	16	12	1	282	30	61	—	35	—
Supervisors, related agricultural occupations	—	—	—	—	9	9	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	287	19	29	—	52	1	12	1	262	19	56	—	23	—
Animal caretakers, except farm	11	11	—	—	6	6	—	—	20	11	5	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	12	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.											
Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products			
Yarn, thread, and fabric mills				Apparel and accessories, except knit				Miscellaneous paper and pulp products			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
33	17	28	20	24	16	14	7	114	67	77	27
9	9	9	9	7	7	7	7	24	12	37	21
20	17	15	1	17	9	14	7	90	48	40	6
13	7	15	1	3	3	3	3	29	8	37	21
7	7	7	7	6	6	6	6	29	8	37	21
92 248	9 581	9 394	1 140	111 089	57 739	15 833	5 774	62 645	1 434	26 666	1 401
43 458	2 328	3 160	183	12 428	1 435	2 727	335	21 895	305	8 090	264
579	35	46	3	180	10	38	7	585	150	7 054	264
42 879	2 293	3 114	183	12 243	1 407	2 097	328	21 310	305	7 054	264
863	38	120	7	306	26	90	7	9 443	411	350	—
482	13	74	1	151	18	91	7	328	7	176	—
74	7	7	7	10	8	1	1	177	—	35	—
6	—	12	—	8	—	—	—	31	—	7	—
8	—	—	—	—	—	—	—	—	—	—	—
100	—	5	—	56	8	—	—	2	—	5	—
26	20	4	—	12	—	—	—	42	—	—	—
131	5	11	—	35	—	8	—	6	—	—	—
33	—	7	—	—	—	—	—	480	—	99	—
32 991	1 519	2 013	110	8 679	455	1 638	103	6 083	154	28	—
1 125	80	46	—	93	54	30	—	1 445	19	4 983	209
331	19	45	—	246	86	47	—	311	8	263	23
247	11	34	—	17	6	—	—	204	8	12	—
11	11	3	—	18	8	—	—	23	—	—	—
18	—	3	—	168	38	22	—	5	—	—	—
15	—	—	—	11	6	—	—	31	—	—	—
40	8	8	—	32	28	25	—	48	—	—	—
608	14	13	—	54	—	37	—	9	—	12	—
6 961	623	877	73	2 870	786	832	218	12 190	117	13	—
86	8	5	—	20	7	1	9	2 894	79	2 331	32
8	—	—	—	15	—	9	—	26	—	23	—
2	—	8	—	—	—	5	—	26	—	6	—
37	—	—	—	—	—	—	—	—	—	—	—
617	39	145	8	20	—	4	—	7	—	—	—
2 893	413	323	62	1 346	81	89	9	128	51	5	—
3 318	163	396	3	1 405	405	424	157	7 128	17	554	—
6 299	152	616	22	1 325	293	300	42	2 073	49	571	3
206	25	13	—	1 219	186	1 665	92	12 923	88	1 172	23
28	8	13	—	162	33	12	—	627	37	1 505	6
5	5	13	—	5	5	9	—	85	—	68	—
5	5	13	—	7	—	9	—	327	—	—	—
101	12	—	—	—	—	—	—	46	—	22	—
6 093	127	603	22	150	28	3	—	27	—	—	—
40	10	—	—	1 057	153	1 653	92	262	—	46	—
10	6	—	—	21	10	16	—	24	—	—	—
38	10	21	—	12	12	19	—	12 296	88	1 437	6
1 153	45	91	—	36	36	5	—	14	—	18	—
11	—	6	—	32	32	112	4	—	—	—	—
3 403	12	312	—	18	3	7	7	1 134	10	200	—
21	—	15	—	334	4	182	—	5 989	17	163	—
377	13	40	—	142	44	102	—	1 279	30	864	—
1	—	—	—	—	—	—	—	434	7	86	—
—	—	—	—	—	—	—	—	17	—	—	—

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.	
Supervisors, farm and logging workers	
Forestry workers, except logging	
Timber cutting and logging occupations	
Fishers, hunters, and trappers	
Captains and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations	
Mechanics and repairers	
Supervisors, mechanics and repairers	
Mechanics and repairers, except supervisors	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationary engine mechanics	
Aircraft engine mechanics	
Small engine repairers	
Automobile body and related repairers	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairers, communications and industrial equipment	
Processing equipment repairers	
Household appliances and power tool repairers	
Telephone installers and repairers	
Telephone installers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Camera, watch, and musical instrument repairers	
Opticians and safe repairers	
Ornate machine repairers	
Mechanical controls and valve repairers	
Electrical installers and repairers	
Millwrights	
Specialized mechanics and repairers, n.e.c.	
Not specified mechanics and repairers	
Construction trades	
Supervisors, construction occupations	
Supervisors, brickmasons, stonemasons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, n.e.c.	
Construction trades, except supervisors	
Brickmasons and stonemasons	
Tile setters, hard and soft	
Carpet installers	
Carpenters	
Drywall installers	
Electricians	
Electrical power installers and repairers	
Painters, construction and maintenance	
Paperhangers	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.											
Textile mill products—Con.			Apparel and other finished textile products			Paper and allied products			Paperboard containers and boxes		
Yarn, thread, and fabric mills			Miscellaneous textile mill products			Pulp, paper, and paperboard mills			Miscellaneous paper and pulp products		
Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
701	16	72	5	14	73	7	7	4 171	22	462	238
8	—	—	—	—	—	55	—	21	—	—	—
112	2	21	—	—	17	13	—	178	6	55	48
8	—	7	—	2	—	13	—	20	8	—	—
20	—	6	—	2	7	—	—	62	—	—	6
4	2	—	—	—	—	—	—	—	—	—	—
179	11	12	5	30	1 092	42	51	27	7	—	14
193	79	13	6	52	—	52	—	40	5	30	17
23	6	6	6	13	—	15	—	2	5	5	6
8	—	—	—	—	—	—	—	—	—	—	—
11	11	—	—	—	—	—	—	—	—	—	—
90	43	7	—	22	—	22	—	36	2	14	17
61	19	—	—	15	—	15	—	2	9	—	6
42 298	7 022	5 605	97 360	56 091	11 441	—	—	27 787	1 036	14 866	17 054
33 652	4 444	4 218	48 801	32 106	7 194	360	3 029	19 177	1 432	10 871	12 662
4 193	427	591	25	2 002	1 014	4 298	261	4 292	238	3 017	3 753
123	—	56	2	—	366	78	—	238	6	272	1 284
47	14	4	—	25	34	37	27	10	—	5	5
3 453	252	517	23	1 878	473	1 878	151	3 398	188	2 367	2 271
73	12	1	—	—	—	—	—	273	—	82	44
32	8	—	—	109	5	127	5	23	2	29	9
32	27	—	—	1 906	33	1 906	28	30	5	20	—
97	49	6	—	92	14	163	2	21	6	16	5
5	5	—	—	30	14	30	14	13	—	—	—
74	26	7	—	13	68	13	12	60	13	164	35
241	15	7	—	38	15	38	15	226	6	60	72
19	19	—	—	13	2	13	—	—	2	2	14
106	54	9	—	911	55	911	42	29	—	31	14
15	—	7	—	—	—	—	—	—	—	20	—
27	11	—	—	—	13	—	—	—	—	4	—
64	43	2	—	891	39	—	3	—	—	—	—
2 901	1 629	594	311	20 572	2 983	41 589	1 948	23	7	—	—
1 319	1 040	164	138	9 944	1 447	10 343	1 330	66	101	—	—
233	149	44	20	9 200	279	28 392	124	19	19	—	—
811	103	70	10	388	388	35	78	8	16	—	—
17	12	—	—	11	5	35	—	—	—	—	—
201	111	24	6	1 411	170	45	5	—	—	8	—
320	214	292	137	1 363	694	1 363	282	32	25	42	1
275	65	12	7	1 172	81	1 172	41	152	16	152	63
10	2	—	—	34	4	34	—	34	99	—	42
15	13	—	—	950	26	950	26	12	17	—	29
20	13	—	—	33	—	33	—	4	—	—	—
14	7	5	—	17	9	17	—	69	—	—	—
—	—	—	—	10	5	10	—	8	54	72	13
216	43	7	7	114	40	114	6	37	22	22	—
60	9	—	—	148	21	148	—	19	5	41	14
51	7	—	—	77	19	77	—	13	12	49	23
9	2	—	—	42	5	42	—	6	12	49	17
—	—	—	—	38	16	38	—	—	—	—	6
185	83	34	29	59	23	59	15	36	—	59	26
178	83	34	29	63	23	63	15	28	11	43	26
7	—	—	—	5	—	5	—	8	11	16	7

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terrazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extrusive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision manufacturing occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, files, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.											
Textile mill products—Con.			Apparel and other finished textile products			Paper and allied products			Paperboard containers and boxes		
Miscellaneous textile mill products			Apparel and accessories, except knit			Miscellaneous fabricated textile products				Pulp, paper, and paperboard mills	Miscellaneous paper and pulp products
Total	Female	Total	Female	Total	Female	Total	Female	Total			
926	91	147	373	147	70	11	3 716	38	586	50	512
84	8	—	—	—	6	—	257	3	45	—	11
70	53	116	339	126	62	11	851	7	51	—	27
698	21	13	27	21	2	—	2 175	14	446	37	433
74	—	—	—	—	—	—	433	14	44	13	41
361 887	201 416	33 410	846 591	760 200	88 382	66 044	153 593	20 895	93 491	36 559	111 288
303 322	186 882	27 152	781 538	721 206	76 607	60 522	104 444	14 461	68 774	27 640	76 923
271 458	164 950	23 744	724 929	669 955	66 130	52 636	92 157	10 488	58 554	20 886	21 656
1 846	822	373	801	368	368	181	1 512	153	729	176	15 563
8	—	—	—	—	—	—	4	—	57	6	210
542	165	45	129	72	60	10	132	2	37	—	56
130	23	16	31	18	160	110	319	83	208	89	111
174	86	66	266	187	14	7	46	10	45	13	146
22	22	12	27	7	28	14	77	41	—	—	16
56	31	—	—	—	—	—	—	—	—	—	—
403	117	46	156	85	74	26	586	28	197	37	150
20	20	12	19	19	—	—	54	11	15	—	29
5	5	9	16	16	—	—	—	7	13	7	6
486	353	164	119	87	32	14	194	14	87	18	20
187	111	61	367	317	101	63	149	33	134	100	450
1 007	329	396	3 884	2 946	510	222	2 050	490	1 761	374	4 381
853	311	311	3 829	2 915	401	171	1 612	479	532	332	4 281
107	6	71	55	31	95	51	1 404	11	207	34	87
11	—	—	—	—	11	—	—	—	—	—	6
36	12	14	—	—	3	—	34	—	22	8	7
357	141	34	362	266	104	53	1 632	158	257	85	468
10	6	—	—	—	—	—	33	20	20	20	7
72	24	8	209	146	34	4	782	83	114	24	356
96	57	12	50	28	6	—	24	13	30	23	13
83	27	7	52	41	19	19	11	31	31	31	54
96	27	7	51	51	45	30	782	57	62	7	38
1 351	507	319	2 078	1 555	888	366	2 154	290	4 673	800	361
1 207	437	295	1 966	1 486	787	338	1 855	214	4 108	650	7 459
17	9	—	20	9	33	19	36	6	108	60	6 436
9	—	—	16	—	19	—	85	33	131	50	201
52	9	8 178	76	53	49	9	178	37	319	79	128
220 540	143 976	14 912	661 693	620 308	42 877	38 388	1 454	294	2 351	1 115	694
78 116	60 586	3 449	950	660	373	236	391	31	683	154	888
40 598	25 823	1 528	1 542	997	805	525	20	20	7	—	55
2 784	1 221	381	658	487	133	84	24	24	27	1	6
27 934	24 560	2 603	612 937	586 871	39 869	36 478	379	196	1 033	845	433
240	174	8	646	619	75	64	—	—	9	—	8
534	324	103	35 296	24 935	387	305	13	—	22	12	27
534	324	22	1 086	878	76	28	21	—	14	46	46
70 094	31 164	6 818	8 578	5 071	1 159	668	606	47	556	103	222
46 170	18 864	7 649	55 744	44 044	21 282	13 363	83 206	9 070	48 649	18 236	13 889
336	195	88	623	556	312	332	1 030	363	1 247	336	2 970
1 168	703	163	1 572	1 345	463	389	968	335	1 247	744	2 970
262	66	96	1 203	1 028	93	72	277	700	700	62	155
6 555	648	690	817	723	326	70	1 345	84	903	27	173
263	26	45	75	50	88	51	1 086	27	131	24	448
685	188	180	273	185	106	36	1 086	27	131	24	236
524	163	124	335	145	151	66	1 486	60	776	148	895
7	7	2	—	—	5	—	—	2	—	61	412
303	58	16	291	124	25	20	736	21	78	6	29

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

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Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Machine operators and inspectors, except precision

Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

United States

Manufacturing, nondurable goods—Con.

Textile mill products—Con.		Apparel and other finished textile products		Paper and allied products		
Yarn, thread, and fabric mills	Miscellaneous textile mill products	Apparel and accessories, except knit	Miscellaneous fabricated textile products	Pulp, paper, and paperboard mills	Miscellaneous paper and pulp products	Paperboard containers and boxes
Total	Female	Total	Female	Total	Female	Total
506	421	5 529	5 177	845	363	3 588
878	33	171	49	3 812	42	3 888
360	148	110	61	1 376	46	215
3 026	1 389	10 016	7 456	8 430	727	4 972
91	40	—	—	—	—	—
12 101	6 333	554	485	56	41	71
19 096	8 446	9 615	7 354	33 589	2 594	13 089
		25 558	20 656	27 392	4 279	23 367
5 981	2 316	11 669	9 211	6 589	1 464	6 707
1 401	145	384	118	2 910	47	6 454
3 26	15	42	22	2 210	10	17
3 981	1 947	8 267	6 694	2 705	1 316	5 908
123	69	1 557	1 300	78	9	30
80	24	65	32	17	6	14
41	5	258	212	180	15	148
41	22	—	—	6	—	60
225	22	1 096	819	663	61	16
						7
						67
25 883	19 816	44 940	42 040	5 698	2 509	3 649
22 272	17 149	41 597	39 435	3 762	1 694	3 249
410	20	74	45	645	130	41
527	316	454	422	118	60	20
2 674	2 077	2 815	2 138	1 173	625	66
						273
15 088	1 919	15 105	6 841	22 527	976	15 166
4 589	161	4 540	1 145	7 758	817	716
5	—	—	—	2 565	121	6 557
3 923	174	2 644	50	30	6	—
125	406	1 473	75	6 694	133	5 268
10	16	136	15	839	28	1 064
88	2	14	5	5	5	41
20	18	234	—	—	23	—
12	—	17	—	238	6	172
				4	—	12
				—	—	—
				211	6	—
86	6	14	14	29	2	7
80	6	6	6	62	—	—
6	6	8	8	120	4	—
—	—	—	—	—	—	7
49	8	11	—	—	—	—
6	6	—	—	107	16	—
20	2	3	—	46	6	—
18	—	—	—	16	8	—
				35	8	—
				10	—	—
10 364	1 640	10 540	6 682	14 399	787	8 602
29	20	99	43	330	6	64
25	6	122	115	239	9	24
33	7	—	—	50	—	—
82	14	19	6	1545	15	12
66	7	17	8	246	3	137
48	8	6	2	365	71	7
4 979	234	1 233	129	8 397	431	17
5 102	1 371	9 044	6 379	3 527	412	6 840
				3 225	282	1 500

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.	
Machine operators, assemblers, and inspectors—Con.	
Machine operators and tenders, except precision—Con.	
Machine operators, assorted materials—Con.	
Folding machine operators	
Furrows, kin, and oven operators, except food	
Cruising and grinding machine operators	
Sizing and cutting machine operators	
Motion picture projectionists	
Photographic process machine operators	
Miscellaneous machine operators, n.e.c.	
Machine operators, not specified	
Fabricators, assemblers, and hand working occupations	
Welders and cutters	
Solders and brazers	
Assemblers	
Hand cutting and trimming occupations	
Hand casting, molding, and forming occupations	
Hand painting, coating, and decorating occupations	
Hand engraving and polishing occupations	
Hand grinding and polishing occupations	
Miscellaneous hand working occupations	
Production inspectors, testers, samplers, and weighers	
Production inspectors, checkers, and examiners	
Production testers	
Production samplers and weighers	
Graders and sorters, except agricultural	
Transportation and material moving occupations	
Motor vehicle operators	
Supervisors, motor vehicle operators	
Truck drivers, heavy	
Truck drivers, light	
Driver-sales workers	
Bus drivers	
Taxicab drivers and chauffeurs	
Perkins lot attendants	
Motor transportation occupations, n.e.c.	
Rail transportation occupations	
Railroad conductors and yardmasters	
Locomotive operating occupations	
Railroad brake, signal, and switch operators	
Rail vehicle operators, n.e.c.	
Water transportation occupations	
Ship captains and mates, except fishing boats	
Sailors and deckhands	
Marine engineers	
Bridge, lock, and lighthouse tenders	
Material moving equipment operators	
Supervisors, material moving equipment operators	
Operating engineers	
Longshore equipment operators	
Hoist and winch operators	
Crane and tower operators	
Excavating and loading machine operators	
Grader, dozer, and scraper operators	
Industrial truck and tractor equipment operators	
Miscellaneous material moving equipment operators	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.													
Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products					
Yarn, thread, and fabric mills		Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
43 477	12 719	4 339	1 233	49 948	32 153	8 620	4 772	26 622	5 458	16 959	8 102	19 199	7 719
68	6	6	6	50	11	8	—	49	—	21	—	18	—
146	7	7	—	29	7	2	—	38	3	15	—	38	—
58	—	15	—	40	7	—	—	176	6	19	—	46	3
58	—	15	—	40	7	—	—	155	6	19	—	30	—
—	—	—	—	—	—	—	—	21	6	—	—	16	3
—	—	—	—	—	—	—	—	—	—	—	—	—	—
207	25	38	7	103	50	38	1	410	6	71	5	229	4
1 160	202	181	39	825	489	322	157	2 347	202	1 035	208	1 718	275
19 843	3 698	1 367	168	8 751	4 993	1 550	684	5 166	524	2 712	839	3 838	808
55	—	10	—	36	7	9	—	16	—	12	—	15	—
—	—	6	—	—	—	—	—	23	—	—	—	—	—
1 174	492	187	25	3 504	2 472	599	392	476	72	572	135	447	56
15 052	2 685	802	115	2 545	1 903	418	242	1 324	266	850	531	2 122	632
3 562	521	362	28	2 586	611	524	50	3 327	186	1 278	153	1 254	114
—	—	—	—	—	—	—	—	—	—	—	—	—	—
237	112	15	2	51	22	—	—	21	—	23	7	19	7
2 762	1 150	118	26	1 620	1 148	143	57	408	24	168	15	215	37
6 712	3 707	1 098	534	21 639	15 560	3 265	2 313	5 025	2 894	7 607	5 476	7 027	5 045
12 284	3 812	1 494	451	16 840	9 866	3 292	1 560	12 932	1 799	5 288	1 552	6 051	1 540

Employed persons 16 years and over—Con.	
Operators, fabricators, and laborers—Con.	-----
Handlers, equipment cleaners, helpers, and laborers	-----
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	-----
Helpers, mechanics and repairers	-----
Helpers, construction and extractive occupations	-----
Helpers, construction trades	-----
Helpers, surveyor	-----
Helpers, extractive occupations	-----
Construction laborers	-----
Production helpers	-----
Freight, stock, and material handlers	-----
Garbage collectors	-----
Streetvenders	-----
Stock handlers and baggers	-----
Machine feeders and offbearers	-----
Freight, stock, and material handlers, n.e.c.	-----
Garage and service station related occupations	-----
Vehicle washers and equipment cleaners	-----
Hand packers and packagers	-----
Laborers, except construction	-----

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production laborers
 Freight, stock, and material handlers
 Garbage collectors
 Street cleaners
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.																											
Printing, publishing, and allied industries								Chemicals and allied products																			
Newspaper publishing and printing				Printing, publishing, and allied industries, except newspapers				Plastics, synthetics, and resins				Drugs				Soaps and cosmetics				Paints, varnishes, and related products				Agricultural chemicals			
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
Employed persons 16 years and over																											
510 125		208 252		1 020 904		417 055		233 943		70 156		204 429		85 151		134 542		61 537		76 064		17 604		68 352		12 553	
150 776		54 942		212 710		77 164		33 500		4 248		52 473		12 452		27 780		7 053		14 501		2 136		14 260		1 946	
49 854		14 176		123 006		32 969		19 629		2 773		27 549		5 803		18 620		4 471		9 887		1 496		9 309		1 237	
Managerial and professional specialty occupations																											
Executive, administrative, and managerial occupations																											
Legislators, chief executives, and general administrators; public administrators																											
Administrators and officials, public administration																											
Federal																											
State																											
Local																											
Administrators, protective services																											
1 254		469		3 881		1 218		616		114		1 294		203		874		5		563		88		409		50	
926		381		2 177		843		576		124		1 010		293		602		197		263		55		231		22	
Personnel and labor relations managers																											
68		4		731		143		190		18		353		60		218		15		96		12		64			
18 796		4 461		15 045		3 677		1 703		144		4 263		495		3 247		711		1 391		78		950		37	
19		13		94		45		21		6		18		18		36		18		5							
Managers, medicine and health																											
45		8		123		4		3								20								14		7	
Postmasters and mail superintendents																											
5		5		20				7				9								6				8			
24 644		6 994		85 826		20 702		12 056		1 266		13 871		2 000		9 565		1 763		5 534		577		5 419		453	
22 298		6 418		73 491		17 861		11 550		1 183		13 794		1 971		9 361		1 700		5 366		552		5 271		431	
2 346		576		12 335		2 841		506		83		77		29		204		63		168		25		148		22	
Self-employed																											
Management related occupations																											
4 091		1 841		15 109		6 337		4 452		1 101		6 731		2 752		4 053		1 598		2 029		686		2 214		668	
2 243		1 108		8 019		3 213		1 802		541		3 390		1 169		2 131		700		1 131		442		1 278		466	
Accountants and auditors																											
163		81		883		325		143		18		327		131		158		55		96		39		103		29	
197		61		652		233		116		19		368		133		177		113		66		10		31			
1 000		363		2 411		1 121		1 382		289		1 152		519		643		328		298		88		369		81	
Personnel, training, and labor relations specialists																											
Purchasing agents and buyers, farm products																											
Buyers, wholesale and retail trade except farm products																											
Business and promotion agents																											
291		126		2 590		1 145		762		207		859		336		795		322		425		107		302		81	
125		43		311		158		13		5		58		25		13		6				2		15			
8		8		94		46		133		22		543		394		65		31		8		6		20			
64		51		123		76		80		12		88		41		71		43		5				72		11	
Inspectors and compliance officers, except construction																											
Management related occupations, n.e.c.																											
Professional specialty occupations																											
100 922		40 766		89 704		44 195		13 871		1 475		24 924		6 649		9 160		2 582		4 614		640		4 951		709	
449		48		3 567		443		8 813		351		5 133		413		3 379		389		1 464		85		2 243		83	
12				39		13		32				78				21				8							
429		48		3 533		430		8 775		351		5 055		413		3 358		389		1 456		85		2 243		83	
Aerospace engineers																											
Metallurgical and materials engineers																											
7				11		5		29		2		7				32				5				8			
7				3				13								6				21				2			
Petroleum engineers																											
				5		11		5 491		190		2 440		122		1 495		102		855		30		1 473		46	
Chemical engineers																											
24				64				179		19		173		5		90				18				64		7	
Nuclear engineers																											
93				315		6		372		11		204		251		128		25		100		7		60			
130		42		1 603		388		1 135		94		1 198		78		1 002		239		248		37		299		30	
66				593		5		843		11		326		7		228		71		95				95			
Mechanical engineers																											
109		6		756		15		675		24		500		28		375		2		154		11		211			
8				15				6																			
Marine engineers and naval architects																											
Engineers, n.e.c.																											
Surveyors and mapping scientists																											
Mathematical and computer scientists																											
584		160		2 251		746		656		125		2 341		621		621		216		227		76		332		109	
308		53		1 277		312		389		59		1 285		347		315		81		145		43		196		54	
121		20		673		231		209		42		587		113		226		83		49		20		96		20	
5												2		9		16		9						40		35	
150		87		274		181		53		24		455		156		64		43		20		13		23			
1				27		22		5				12		5										40		35	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Printing, publishing, and allied industries				Chemicals and allied products								Agricultural chemicals	
		Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
28	7	412	117	2 560	337	11 213	3 359	2 624	728	2 316	209	1 730	302		
—	—	24	12	35	16	27	186	—	—	8	—	13	—		
4	1	313	50	2 405	316	7 186	1 880	2 299	565	2 294	209	1 311	237		
—	—	8	2	—	—	27	20	—	—	—	—	—	—		
6	6	12	6	7	—	11	6	11	6	—	—	20	6		
3	—	28	28	13	6	40	6	11	11	—	—	20	8		
7	—	14	12	46	15	2 802	1 097	195	107	14	—	127	12		
8	—	—	5	12	15	1 022	332	106	39	—	—	154	37		
23	8	55	23	87	6	906	107	53	12	—	—	21	8		
12	—	19	9	87	6	571	79	43	8	7	—	28	7		
—	—	15	9	—	—	15	15	10	4	—	—	21	7		
6	6	—	—	—	—	286	16	—	—	—	—	—	—		
5	2	14	14	—	—	2	2	—	—	—	—	—	—		
255	140	353	270	265	251	32	10	—	—	—	—	—	—		
250	135	307	252	245	245	1 314	552	199	191	66	48	36	23		
—	—	8	8	—	—	615	353	186	186	48	43	30	23		
5	5	30	4	14	6	27	11	—	—	10	5	—	—		
—	—	—	—	6	—	10	11	—	—	—	—	6	—		
24	12	103	62	20	8	22	—	12	5	8	—	—	—		
64	27	428	245	101	50	130	36	64	36	19	12	34	11		
6	—	10	5	—	—	—	—	—	—	—	—	—	—		
58	27	418	240	101	50	—	—	7	5	—	—	—	—		
97	35	194	108	6	75	130	36	57	37	—	—	—	—		
449	319	426	310	89	75	275	229	7	12	19	12	34	11		
—	—	368	261	89	75	270	224	61	51	16	13	22	17		
—	—	58	49	—	—	5	5	—	—	16	13	17	17		
411	218	1 751	793	385	83	1 101	386	441	230	117	22	177	30		
368	213	1 655	742	372	83	1 054	361	616	225	117	22	170	30		
18	5	22	17	2	—	24	8	10	5	—	—	—	—		
25	—	52	28	11	—	—	—	9	—	—	—	—	—		
72	40	16	6	13	3	20	14	6	—	—	—	—	—		
33	12	468	121	13	3	3	7	6	—	—	—	—	—		
27	21	86	26	7	—	22	7	7	—	—	—	—	—		
5	—	20	14	7	—	17	7	7	—	—	—	—	—		
7	7	301	66	6	—	—	—	—	—	—	—	—	—		
144	7	61	15	6	—	5	—	—	—	—	—	—	—		
144	28	494	114	151	7	—	—	—	—	—	—	—	—		
—	—	494	114	151	7	659	104	287	48	67	—	86	31		
98 322	39 724	79 182	—	725	176	1 813	835	1 217	667	315	175	255	83		
965	478	2 335	40 843	—	—	34	34	—	—	—	—	—	—		
1 405	702	2 848	1 066	48	17	390	289	53	31	5	—	21	31		
2 672	1 479	12 364	5 777	369	45	420	88	528	240	118	56	62	—		
107	50	757	207	14	6	5	5	—	—	—	—	—	—		
4 698	2 202	16 900	9 086	6	16	6	6	—	—	—	—	—	—		
6 676	1 246	3 537	835	24	2	109	64	130	73	104	65	41	13		
14	7	14	—	2	2	77	5	37	8	—	—	16	6		
278	148	1 062	534	—	—	32	14	—	—	—	—	—	—		
80 113	32 899	36 161	20 640	56	47	235	179	120	95	—	—	26	—		
1 277	475	3 091	1 536	147	41	505	165	342	220	—	—	56	—		
60	31	23	17	—	—	—	—	—	—	—	—	—	—		
43	—	33	—	—	—	—	—	—	—	—	—	—	—		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A)

United States		Printing, publishing, and allied industries				Chemicals and allied products				Agricultural chemicals			
		Printing, publishing, and allied industries		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Total	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Newspaper publishing and printing		216 476	117 166	42 721	20 575	74 323	41 886	38 142	23 966	24 434	10 636	16 023	7 864
Technical, sales, and administrative support occupations		3 901	908	12 637	2 865	18 771	8 145	5 109	1 941	5 036	815	3 421	704
Technicians and related support occupations		25	10	167	67	1 415	764	71	27	41	2	10	—
Health technologists and technicians		—	—	52	24	705	435	33	19	2	2	—	—
Health laboratory technologists and technicians		—	—	—	—	—	—	8	8	—	—	—	—
Dental hygienists		—	—	—	—	48	48	—	—	—	—	—	—
Health record technologists and technicians		13	6	—	—	8	8	—	—	—	—	—	—
Radiologic technicians		6	6	39	23	101	96	—	—	6	—	—	—
Licensed practical nurses		6	4	76	20	553	177	30	33	—	—	10	—
Health technologists and technicians, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—
Engineering and related technologists and technicians		2 167	265	2 702	425	2 007	637	658	170	612	67	680	147
Electrical and electronic technicians		1 924	165	3 781	74	254	54	77	9	37	—	132	12
Industrial engineering technicians		—	—	205	74	19	16	12	—	—	—	10	—
Mechanical engineering technicians		18	9	96	13	13	13	42	6	—	—	8	—
Engineering technicians, n.e.c.		75	22	1 347	274	1 200	515	316	148	425	56	314	114
Drafting occupations		123	51	664	22	469	16	211	7	133	11	196	21
Surveying and mapping technicians		27	18	12	—	20	—	—	—	—	—	20	—
Science technicians		14	—	8 018	1 996	11 756	5 445	3 221	1 406	3 880	595	2 229	486
Biological technicians		—	—	158	42	9 509	4 560	41	—	77	—	146	34
Chemical technicians		—	—	7 330	1 801	1 667	543	2 819	1 180	3 557	502	1 994	445
Science technicians, n.e.c.		14	—	530	153	580	342	361	20	246	93	89	7
Technicians, except health, engineering, and science		1 695	633	1 750	377	3 399	1 299	1 159	338	503	151	502	71
Airplane pilots and navigators		83	—	22	—	38	—	29	—	13	—	8	—
Air traffic controllers		—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators		67	31	56	12	11	7	—	—	—	—	—	—
Computer programmers		996	302	419	138	1 131	455	536	133	261	109	186	50
Food programmers, numerical control		14	8	20	6	29	9	21	7	3	3	—	—
Tool assistants		101	35	41	9	81	56	48	46	20	12	5	5
Legal assistants		434	257	1 192	212	2 303	772	525	152	199	27	303	16
Technicians, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations		110 214	41 003	4 390	670	16 452	2 964	7 412	2 458	5 630	437	2 901	269
Supervisors and proprietors, sales occupations		3 253	1 154	3 336	53	376	172	508	174	377	34	249	32
Sales		117	28	298	43	576	172	508	174	366	34	241	32
Self-employed		—	—	38	8	—	—	—	—	—	—	8	—
Sales representatives, finance and business services		28 618	14 008	23	5	81	28	89	55	48	24	19	7
Real estate sales occupations		41	19	—	—	—	—	—	—	—	—	—	—
Securities and financial services sales occupations		—	—	18	—	—	—	13	—	11	4	12	—
Advertising and related sales occupations		28 577	13 989	5	5	81	28	76	55	37	20	7	7
Sales occupations, other business services		—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail		150	80	3 889	523	15 482	2 522	6 468	2 005	5 145	328	2 579	214
Sales engineers		—	—	178	6	35	—	34	9	35	—	29	—
Sales representatives, mining, manufacturing, and wholesale		—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services		78 172	25 761	3 711	517	15 447	2 522	6 434	1 996	5 110	338	2 550	214
Sales workers, commodities		29	15	96	62	298	227	342	219	40	33	52	16
Sales counter clerks		42	18	27	7	21	5	24	—	7	—	23	—
Cashiers		1 370	859	61	47	220	187	143	110	24	24	20	16
Street and door-to-door sales workers		76 731	24 884	8	8	43	35	169	109	9	9	2	7
News vendors		—	—	—	—	—	—	—	—	—	—	—	—
Sales related occupations		21	—	46	27	15	15	5	5	20	18	2	—
Demonstrators, promoters and models, sales		9	—	28	14	8	8	—	—	12	12	2	—
Auctioneers		—	—	13	13	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.		12	—	5	—	7	7	5	—	8	6	—	—
Administrative support occupations, including clerical		102 361	75 255	25 494	17 040	39 100	30 777	25 621	19 567	13 768	9 384	9 701	6 891
Supervisors, administrative support occupations		5 333	2 491	1 617	477	2 484	1 036	1 539	593	1 244	417	765	234
Supervisors, general office		2 231	1 380	641	266	1 183	740	622	325	522	215	337	167
Supervisors, computer equipment operators		203	49	101	28	168	30	89	20	58	16	12	6
Supervisors, financial records processing		824	512	257	110	542	165	372	198	307	161	196	42
Chief communications operators		58	34	7	—	—	—	—	—	—	—	6	—
Supervisors, distribution, scheduling, and adjusting clerks		2 017	516	611	73	588	101	456	50	337	25	214	19
Computer equipment operators		3 418	1 894	739	345	1 275	655	839	431	438	308	366	162
Computer operators		3 220	1 792	708	332	1 193	620	808	288	412	288	349	151
Peripheral equipment operators		198	102	31	13	82	35	31	20	26	20	17	—

ipation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.

ities

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
Administrative support occupations, including clerical—Con.
Secretaries, stenographers, and typists

Secretaries	21 638	21 039	51 059	49 902	7 492	7 434	15 152	15 104	7 998	7 901	3 444	3 405	3 144	3 135
Stenographers	13 295	13 097	37 144	36 539	6 634	6 583	13 968	13 920	7 164	7 080	2 987	2 954	2 815	2 815
Typists	8 122	7 803	13 421	12 961	584	577	1 092	1 092	42	42	33	33	48	68
Information clerks	4 586	4 167	6 739	6 135	36	428	787	787	792	779	424	418	259	252
Hotel clerks	439	356	1 348	1 091	36	29	157	136	94	83	334	321	141	141
Transportation ticket and reservation agents	26	5	70	37	28	15	37	19	20	6	2	18	41	41
Receptionists	2 778	2 658	4 364	4 282	387	372	453	434	380	375	301	297	91	91
Information clerks, n.e.c.	11 514	9 282	14 867	11 932	1 659	1 070	2 724	2 098	1 926	1 537	837	458	366	321
Records processing occupations, except financial	6 223	5 389	8 477	7 358	20	6	42	42	50	37	6	6	4	4
Classified-unit clerks	884	687	5 898	4 440	55	44	83	66	8	8	20	13	5	5
Correspondence clerks	151	131	541	4 637	541	394	966	735	105	105	43	17	17	15
Order clerks	984	783	362	357	125	120	187	167	97	840	464	275	171	149
Library clerks	937	703	605	441	7	7	61	51	24	24	40	38	81	81
File clerks	2 267	1 508	5 503	4 417	892	492	1 202	895	532	336	249	94	79	58
Records clerks	12 367	11 317	28 624	25 833	3 192	2 735	3 241	2 892	3 026	2 681	2 304	2 066	1 550	1 334
Financial records processing occupations	10 202	9 518	22 688	20 856	2 321	1 912	2 502	2 192	2 181	1 966	1 773	1 578	1 195	1 046
Bookkeepers, accounting, and auditing clerks	967	511	1 586	1 418	271	227	443	432	346	311	225	191	167	136
Payroll and timekeeping clerks	1 234	1 161	3 005	2 625	279	245	233	222	189	127	117	96	156	146
Billing clerks	85	42	928	600	22	15	44	37	42	33	23	23	32	6
Cost and rate clerks	1 353	768	2 693	1 398	60	52	170	123	90	61	50	37	4	2
Billing, posting, and calculating machine operators	17	7	372	457	14	13	77	50	17	11	15	8	4	2
Duplicating, mail, and other office machine operators	1 218	695	1 825	453	46	39	79	59	62	44	35	29	4	2
Mail preparing and paper handling machine operators	2 006	1 858	1 010	938	163	135	126	102	123	114	60	57	136	103
Office machine operators, n.e.c.	1 992	1 844	1 003	931	145	129	107	102	123	114	60	57	128	103
Communications equipment operators	14	14	7	7	18	6	19	—	—	—	—	—	8	—
Telephone operators	12 440	2 806	11 157	4 696	363	169	727	314	482	286	151	86	173	60
Communications equipment operators, n.e.c.	10 647	2 225	8 203	4 195	279	147	640	299	445	243	—	—	—	—
Postal clerks, except mail carriers	1 793	581	2 934	501	84	22	87	15	37	23	—	—	—	—
Mail carriers, except postal service	3 735	1 629	27 137	10 593	6 310	1 708	5 632	2 234	5 033	2 052	146	86	147	57
Mail clerks, except postal service	1 434	222	1 448	82	30	7	36	12	34	5	5	5	26	3
Material recording, scheduling, and distributing clerks	1 638	821	7 462	4 066	1 389	542	1 066	496	696	354	2 990	756	1 565	381
Dispatchers	628	116	12 135	2 990	2 899	577	2 036	499	2 196	634	398	170	266	17
Traffic, shipping, and receiving clerks	395	91	5 084	1 879	1 354	360	1 749	812	1 606	790	1 590	202	451	47
Stock and inventory clerks	141	55	911	661	300	68	351	121	234	99	806	291	462	139
Warehousemen, and checkers	8	8	23	12	2	2	316	219	235	148	61	16	192	22
Expeditors	487	316	1 313	866	275	117	316	219	235	148	111	64	8	61
Material recording, scheduling, and distributing clerks, n.e.c.	9	—	61	37	61	15	78	75	32	22	5	5	39	18
Adjusters and investigators	1 760	993	3 722	2 398	341	137	655	445	483	397	165	85	106	40
Insurance adjusters, examiners, and investigators	908	575	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	27	27	3 005	1 847	251	91	554	368	383	319	148	78	84	20
Eligibility clerks, social welfare	825	391	717	551	90	46	101	77	100	78	17	7	22	20
Bill and account collectors	22 221	17 011	43 994	36 868	3 279	2 350	6 127	5 101	3 538	2 993	1 751	1 388	1 385	978
Miscellaneous administrative support occupations	8 496	7 008	19 600	17 206	1 916	1 514	2 966	2 572	1 944	1 647	1 025	802	739	542
General office clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bank tellers	4 295	3 363	10 902	8 573	13	13	116	108	20	12	—	—	8	8
Proofreaders	2 508	2 102	7 301	6 634	613	564	1 422	1 385	833	818	452	423	314	274
Date-entry keyers	788	515	2 150	1 600	203	84	446	355	186	156	78	53	83	83
Statistical clerks	30	30	14	6	10	10	6	6	549	374	192	110	241	80
Teachers' aides	6 104	3 993	4 027	2 849	524	175	1 171	675	549	374	192	110	241	80
Administrative support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Printing, publishing, and allied industries				Chemicals and allied products				Agricultural chemicals			
	Total	Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	8 271	1 672	11 917	2 434	1 068	6 375	1 068	6 760	1 847	3 932	1 316	1 626	209
Private household occupations	1 473	136	1 432	123	122	1 081	122	1 196	74	679	79	309	14
Protective service occupations	27	6	27	—	—	5	—	20	—	37	—	—	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	27	6	27	—	—	32	—	85	—	37	—	12	—
Supervisors, guards	11	—	—	—	—	20	—	29	—	15	—	12	—
Firefighting and fire prevention occupations	11	—	—	—	—	12	—	29	—	13	—	—	—
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Freightlifting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	1 435	130	1 405	123	122	1 044	122	1 062	74	614	79	297	14
Crossing guards	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards and police, except public service	1 418	130	1 400	123	122	1 030	122	1 062	74	614	79	297	14
Protective service occupations, n.e.c.	17	—	5	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	6 798	1 536	10 485	2 311	946	5 294	946	5 564	1 773	3 253	1 237	1 317	195
Food preparation and service occupations	547	257	756	498	195	300	195	697	486	221	161	86	61
Supervisors, food preparation and service occupations	30	—	84	35	13	21	13	56	4	17	—	—	—
Bar tenders	11	5	25	7	6	15	6	67	55	8	8	5	5
Waiters and waitresses	125	75	60	54	39	58	39	183	79	50	42	27	27
Cooks, except short order	193	89	240	163	10	86	10	5	13	15	15	—	—
Short-order cooks	6	—	15	9	7	10	7	13	6	—	—	—	—
Food counter, furniture and related occupations	29	29	73	73	7	7	7	32	18	13	6	—	—
Kitchen workers, food preparation	13	5	30	30	17	22	17	65	65	21	17	6	6
Waiters' and waitresses' assistants	31	4	42	24	57	81	57	270	210	82	56	23	23
Miscellaneous food preparation occupations	109	50	187	103	40	48	40	167	139	31	25	16	—
Health service occupations	28	7	74	53	—	—	—	—	—	10	10	—	—
Dental assistants	—	—	—	—	—	—	—	—	—	9	9	—	—
Health aides, except nursing	14	7	19	6	—	—	—	75	59	12	6	—	—
Nursing aides, orderlies, and attendants	14	—	55	47	40	48	40	92	80	16	6	—	—
Cleaning and building service occupations, except household	6 009	1 105	9 271	1 460	685	4 892	685	4 530	1 048	2 383	549	1 229	128
Supervisors, cleaning and building service workers	115	10	107	9	9	131	9	106	13	88	13	36	5
Maid and housemen	573	279	828	323	120	292	120	641	235	272	94	64	19
Janitors and cleaners	5 214	789	8 163	1 074	556	4 463	556	3 746	807	2 010	442	1 123	104
Elevator operators	100	20	171	56	—	6	—	13	—	—	—	6	—
Pest control occupations	7	7	—	—	—	—	—	4	—	—	—	—	—
Personal service occupations	214	167	384	300	26	54	26	170	100	618	502	6	6
Supervisors, personal service occupations	10	5	24	19	5	5	5	11	6	12	7	—	—
Barbers	20	20	33	16	13	2	13	13	13	474	404	6	6
Hairstylists and cosmetologists	5	5	61	61	2	4	2	7	5	12	5	—	—
Attendants, amusement and recreation facilities	115	88	21	15	13	—	—	1	1	34	27	—	—
Cablers	—	—	4	—	—	—	—	—	—	—	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	32	22	20	20	—	—	—	—	—	—	—	—	—
Child care workers, except private household	32	27	208	162	24	30	24	132	80	79	59	—	—
Personal service occupations, n.e.c.	95	14	221	59	18	89	18	567	103	58	2	5	—
Farming, forestry, and fishing occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm operators and managers	—	—	15	7	3	—	—	—	—	—	—	—	—
Farm occupations, except managerial	78	9	181	52	9	68	9	555	103	54	2	5	—
Related agricultural occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Groundkeepers and gardeners, except farm	49	—	141	12	2	61	2	166	15	45	—	5	—
Animal caretakers, except farm	9	9	35	35	7	7	7	382	83	9	2	—	—
Grocers and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Manufacturing, nondurable goods—Con.														
Printing, publishing, and allied industries			Chemicals and allied products				Agricultural chemicals							
Newspaper publishing and printing			Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
11	5	3	18	6	—	—	—	—	4	—	—	—	12	—
24 182	4 164	100 667	44 383	3 349	21 643	3 214	14 619	2 107	9 470	581	—	—	13 525	428
3 361	159	9 562	12 216	510	4 830	211	4 411	161	1 747	43	—	—	4 335	95
116	—	153	297	—	176	8	132	—	33	—	—	—	94	—
3 245	159	9 409	11 919	510	4 654	203	4 279	161	1 714	43	—	—	4 241	95
607	38	428	10 420	217	4 197	6	208	6	1 117	5	—	—	419	—
476	4	251	179	15	127	—	104	—	50	5	—	—	187	—
78	—	23	60	—	6	—	12	—	7	—	—	—	107	—
2	—	10	—	—	—	—	5	—	—	—	—	—	3	—
13	—	25	31	—	2	—	5	—	19	—	—	—	14	—
38	34	116	120	6	49	—	63	6	22	—	—	—	93	—
1 443	82	5 762	5 362	223	2 263	70	2 346	77	778	6	—	—	1 477	17
30	—	166	128	19	95	17	91	14	46	6	—	—	93	5
331	6	407	348	36	93	19	106	18	—	—	—	—	147	19
91	—	119	232	18	35	—	48	7	—	—	—	—	76	—
201	6	195	33	6	7	—	6	—	—	—	—	—	23	—
—	—	—	12	—	9	7	37	5	—	—	—	—	—	—
21	—	57	33	5	25	—	9	—	—	—	—	—	32	19
18	—	36	38	7	17	12	6	—	—	—	—	—	16	—
118	—	44	127	9	273	—	42	—	6	—	—	—	44	—
716	33	2 602	5 534	202	1 733	97	1 486	46	767	26	—	—	2 061	54
47	—	89	172	16	56	—	19	—	5	—	—	—	71	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	135	19	—	14	—	11	—	—	—	—	—	—	—
11	—	22	32	6	13	2	—	—	17	—	—	—	18	6
40	—	274	1 237	26	254	35	145	7	220	16	—	—	294	9
303	7	967	1 992	109	606	11	453	15	128	—	—	—	834	9
309	20	1 108	2 063	45	785	49	858	24	397	10	—	—	832	25
1 877	48	3 356	5 705	179	2 520	65	1 521	41	1 953	115	—	—	1 766	5
158	2	185	292	—	123	—	62	—	56	—	—	—	125	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	4	13	—	4	—	—	—	—	—	—	—	—	—
35	—	64	127	—	14	—	33	—	8	—	—	—	37	—
19	—	12	—	—	—	—	—	—	5	—	—	—	6	—
102	2	105	140	—	105	—	29	—	42	—	—	—	82	—
1 719	46	3 171	5 413	179	2 397	65	1 459	41	1 897	115	—	—	1 641	5
27	5	23	51	—	35	—	13	—	12	—	—	—	17	—
6	—	12	7	—	—	—	—	—	—	—	—	—	—	—
366	24	492	21	9	377	11	134	5	83	—	—	—	209	5
6	—	—	11	3	—	—	639	11	315	8	—	—	712	—
978	6	1 419	2 420	7	790	13	639	11	315	8	—	—	712	—
170	—	763	384	136	189	27	79	6	1 134	92	—	—	127	—
6	—	29	—	5	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.													
Printing, publishing, and allied industries				Chemicals and allied products									
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
5	—	19	7	39	—	5	—	2	2	7	7	—	—
99	6	260	5	1 601	13	917	14	526	17	224	—	492	—
16	—	—	—	—	—	6	—	—	—	45	2	8	—
2	—	13	—	299	—	53	—	45	—	29	—	42	—
3	—	20	7	—	—	—	—	—	—	—	—	—	—
3	—	10	—	24	—	12	—	3	—	6	6	12	—
18	5	12	12	28	5	13	—	—	—	16	—	—	—
5	—	13	5	13	—	—	—	9	—	—	—	11	—
12	—	72	10	20	19	7	7	7	—	—	—	57	8
—	—	33	10	118	—	—	—	—	—	—	—	18	—
—	—	10	—	—	—	—	—	7	—	—	—	—	—
—	—	2	2	59	—	—	—	7	—	—	—	6	—
—	—	2	2	53	15	6	6	—	—	—	—	33	8
12	—	15	8	6	—	1	—	—	—	—	—	—	—
18 932	3 957	87 716	27 319	26 344	2 641	14 286	2 931	8 680	1 905	5 770	423	7 367	320
16 278	3 445	52 291	10 982	19 507	1 785	11 304	2 480	6 689	1 599	5 022	315	5 611	181
1 856	203	7 915	1 562	4 229	469	1 211	94	1 149	54	483	49	596	22
32	—	671	30	780	20	69	7	71	2	72	—	22	—
6	—	27	10	18	9	—	—	6	—	—	—	6	—
1 104	47	2 644	330	2 918	398	959	82	985	52	329	31	514	16
7	—	23	—	74	—	21	—	13	—	15	—	15	—
—	—	61	6	8	3	—	—	—	—	7	—	—	—
—	—	45	16	56	11	5	5	—	—	—	—	—	—
137	99	349	183	16	—	5	—	—	—	51	18	—	—
9	—	29	15	7	7	—	—	—	—	—	—	6	—
501	48	3 961	966	35	21	152	—	74	—	9	—	33	—
40	—	103	6	301	—	—	—	—	—	—	—	—	—
—	—	2	—	16	—	—	—	—	—	—	—	—	—
6	6	95	8	61	9	—	—	—	—	14	5	—	—
—	—	—	—	29	—	—	—	—	—	7	—	—	—
6	6	18	—	21	—	—	—	—	—	2	—	—	—
—	—	—	—	11	9	—	—	—	—	5	—	—	—
—	—	77	8	—	—	—	—	—	—	—	—	—	—
11	5	137	107	97	42	105	96	49	40	29	22	7	—
5	5	86	78	47	33	10	10	4	4	—	—	—	—
5	—	10	5	—	—	4	—	—	—	5	5	—	—
—	—	4	—	—	—	—	—	—	—	—	—	—	—
—	—	11	11	11	9	91	86	38	29	24	17	7	—
6	—	10	4	—	—	—	—	—	—	—	—	—	—
—	—	16	9	—	—	—	—	—	—	—	—	—	—
461	273	26 178	14 483	174	74	51	29	52	11	12	—	2	—
10	—	37	106	16	8	5	—	6	—	5	—	—	—
—	—	318	—	15	2	3	3	8	—	—	—	—	—
—	—	9	—	5	—	—	—	—	—	—	—	—	—
12	12	25	16	12	8	—	—	23	4	—	—	—	—
410	259	25 365	14 169	59	29	6	6	7	7	—	—	—	—
—	—	62	40	37	12	37	20	8	—	—	—	2	—
29	2	362	152	67	12	—	—	7	—	7	—	9	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
67	10	272	70	75	11	23	6	27	6	7	—	9	—
41	2	146	31	34	11	23	—	21	—	7	—	—	—
26	8	120	39	—	—	—	—	6	—	—	—	—	—
—	—	6	—	—	—	9	2	41	14	15	—	18	10
24	—	96	43	116	53	9	2	—	—	—	—	—	—
18	—	96	43	105	53	9	2	—	—	—	—	—	—
6	—	—	—	11	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terraazzo finishers

Glaziers

Insulation workers

Roofing, surfacing, and rumpaging equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extrusive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, files, and tool sharpeners

Pattenmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Pattenmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand makers and shapers, except jewelers

Optical workers, lay-out workers, and cutters

Optical goods workers

Dealers, laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and masonry finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, files, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food bottlers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Manufacturing, nondurable goods—Con.

United States

	Printing, publishing, and allied industries				Chemicals and allied products				Agricultural chemicals			
	Newspaper, publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.												
Precision production occupations—Con.												
Plant												
Water and sewage treatment plant operators	229	15	732	64	2 085	198	1 583	230	673	181	188	32
Power plant operators	5	—	7	—	136	5	101	—	27	—	6	—
Sanitary engineers	203	7	686	47	271	46	90	—	29	—	—	—
Miscellaneous plant and system operators	21	8	31	17	976	145	809	22	255	13	107	—
Operators, fabricators, and laborers												
Machine operators, assemblers, and inspectors	110 325	30 294	403 006	125 410	106 875	40 898	48 663	25 649	50 011	27 093	26 028	4 042
Machine operators and tenders, except precision	85 957	26 339	349 006	107 533	95 517	34 430	33 552	17 924	30 924	18 013	18 013	2 973
Metalworking and plastic working machine operators	82 881	24 801	325 163	90 283	107 147	25 712	23 144	9 984	19 346	15 826	15 826	2 087
Lathe and turning machine operators	346	78	1 970	801	2 15	—	152	53	346	58	386	62
Mill and planing machine operators	22	16	265	66	268	40	13	7	—	—	8	—
Planing and planing machine operators	25	—	38	8	46	12	10	5	29	—	35	—
Punching and stamping machine operators	178	47	922	465	441	249	28	15	87	23	92	12
Rolling machine operators	—	—	48	33	9	5	—	—	—	—	20	—
Drilling and boring machine operators	2	—	159	81	213	67	15	7	14	12	36	11
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Forging machine operators	81	—	364	88	744	196	45	6	207	23	169	32
Numerical control machine operators	—	—	12	8	44	9	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	5	5	7	—	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	47	15	125	47	302	134	36	13	—	—	—	—
Metal and plastic processing machine operators	6	—	419	214	84	41	26	20	9	—	18	7
Molding and casting machine operators	433	22	2 407	396	7 426	4 339	457	145	9	—	3	—
Metal planing machine operators	384	15	1 858	314	7 191	4 279	400	124	454	316	186	30
Heat treating equipment operators	15	—	444	65	96	49	33	15	382	290	77	30
Miscellaneous metal and plastic processing machine operators	—	—	55	9	5	—	—	—	31	7	41	—
Working machine operators												
Food kitting, routing, and planing machine operators	71	10	374	8	134	11	24	6	21	5	68	—
Sewing machine operators	10	3	15	11	495	203	39	17	—	—	7	—
Shaping and joining machine operators	27	7	165	85	179	12	15	—	—	—	—	—
Nailing and lacing machine operators	—	—	8	8	261	161	24	17	—	—	—	—
Miscellaneous woodworking machine operators	—	—	43	32	34	30	—	—	—	—	—	—
Printing machine operators	34	—	143	34	18	—	—	—	—	—	—	—
Photoengraving operators	67 648	17 731	250 480	58 727	652	239	747	273	265	134	315	127
Photographers and lithographers	41 262	2 797	162 339	19 474	394	220	660	217	214	95	277	109
Typesetters and compositors	21 427	145	17 776	2 765	4	—	—	—	37	—	8	—
Miscellaneous printing machine operators	2 831	13 225	36 492	17 985	13	—	58	42	39	39	24	12
Textile, apparel, and furnishings machine operators	2 831	1 564	33 873	18 503	6	13	—	14	173	81	207	6
Knitting and twisting machine operators	30 010	235	3 050	2 161	3 695	1 799	170	125	—	—	—	—
Knitting, looping, taping, and weaving machine operators	18	7	99	35	1 660	829	16	3	4	—	47	36
Textile cutting machine operators	9	—	38	25	100	60	—	—	—	—	—	—
Textile sewing machine operators	22	8	120	29	3	3	—	—	—	—	—	—
Shoe machine operators	195	138	1 997	1 706	605	423	85	73	—	—	56	41
Pressing machine operators	18	5	36	36	7	8	—	—	—	—	—	—
Laundry and dry cleaning machine operators	27	15	145	54	8	—	10	—	6	6	76	44
Miscellaneous textile machine operators	68	49	89	32	6	—	—	—	—	—	—	—
Miscellaneous textile machine operators	33	11	526	244	1 306	469	16	43	20	13	—	—
Machine operators, assorted materials	13 993	6 725	66 463	27 814	55 682	18 418	21 553	9 351	18 146	8 824	14 722	26
Cementing and gluing machine operators	64	27	993	724	196	139	280	164	—	—	—	—
Extruding and forming machine operators	579	276	1 066	673	737	327	2 404	1 848	1 857	1 370	1 747	16
Mixing and blending machine operators	2	—	90	13	1 559	136	75	33	29	16	323	16
Separating, filtering, and clarifying machine operators	87	14	1 217	104	1 559	136	75	33	66	34	1 345	29
Compressing and compounding machine operators	126	5	69	12	2 351	230	242	242	3 063	556	4 480	20
Painting and paint spraying machine operators	126	7	955	201	4 672	1 330	2 794	252	643	50	218	5
Roasting and baking machine operators	121	37	990	264	488	126	198	54	55	27	628	32
Washing, cleaning, and picking machine operators	16	9	8	2	50	218	588	52	112	19	1 790	217
	—	—	36	5	28	—	10	—	39	7	14	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.

	Printing, publishing, and allied industries				Chemicals and allied products				Agricultural chemicals			
	Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Operators, fabricators, and laborers—Con.												
Machine operators, assemblers, and inspectors—Con.												
Machine operators and tenders, except precision—Con.												
Machine operators, assorted materials—Con.												
Folding machine operators	403	186	3 730	1 252	138	81	30	16	63	35	18	18
Furnace, kiln, and oven operators, except food	32	—	296	75	1 148	56	367	34	276	17	321	10
Crushing and grinding machine operators	49	9	183	26	496	44	132	13	157	14	786	18
Slicing and cutting machine operators	214	51	8 600	1 282	1 733	564	150	58	121	42	169	24
Motion picture projectionists	—	—	7	—	—	—	—	—	—	—	—	—
Photographic process machine operators	4 951	2 846	10 705	6 142	101	12	69	—	29	13	9	6
Miscellaneous machine operators, n.e.c.	3 686	1 880	13 600	6 018	11 621	4 249	3 151	1 353	2 383	1 228	1 940	55
Machine operators, not specified	3 636	1 387	23 918	11 023	29 751	12 116	9 081	5 146	9 253	5 396	3 061	604
Fabricators, assemblers, and hand working occupations												
Welders and cutters	2 134	1 027	12 874	8 955	9 452	4 780	5 384	4 037	9 034	7 267	1 541	670
Solders and brazers	131	7	841	88	1 288	113	252	—	343	34	274	32
Assemblers	1 717	856	10 425	7 957	7 715	4 221	5 033	4 007	8 597	7 196	1 128	13
Hand cutting and trimming occupations	6	—	85	9	163	53	14	6	9	7	103	6
Hand molding, casting, and forming occupations	8	—	795	512	130	31	15	—	12	—	—	—
Hand painting, coating and decorating occupations	248	153	262	111	28	34	—	—	4	—	—	—
Hand engraving and polishing occupations	—	—	6	—	81	—	25	7	8	—	17	10
Miscellaneous hand working occupations	15	9	374	205	—	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	942	511	10 969	8 895	5 918	3 899	5 024	3 903	2 497	1 787	646	391
Production inspectors, checkers, and examiners	561	339	9 709	7 786	5 442	3 679	4 724	3 691	2 326	1 692	582	274
Production testers	22	8	174	139	110	25	65	46	34	23	12	33
Production samplers and weighers	—	—	102	904	226	150	124	96	64	29	27	16
Graders and sorters, except agricultural	359	164	1 012	555	79	6	6	6	108	13	71	5
Transportation and material moving occupations												
Motor vehicle operators	18 046	2 361	18 087	2 080	7 395	849	3 888	695	5 832	906	3 510	133
Supervisors, motor vehicle operators	15 290	2 052	10 405	764	2 568	103	1 028	96	1 483	40	1 936	22
Supervisors, heavy truck drivers	1 202	333	68	29	68	23	625	44	1 034	21	1 334	5
Truck drivers, heavy	4 644	230	3 863	100	2 135	68	278	27	290	6	497	12
Truck drivers, light	6 795	977	5 345	539	315	6	23	9	37	2	28	17
Truck drivers, heavy	2 092	451	392	55	15	—	6	6	2	—	—	—
Bus drivers	20	7	6	41	79	6	14	—	—	—	—	—
Taxicab drivers and chauffeurs	497	54	684	33	6	—	—	—	—	—	—	—
Parking lot attendants	34	—	14	—	11	—	—	—	—	—	—	—
Motor transportation occupations, n.e.c.	6	—	2	—	30	—	5	—	15	—	11	9
Rail transportation occupations	7	—	—	—	24	—	5	—	6	—	2	—
Railroad conductors and yardmasters	—	—	—	—	6	—	—	—	9	—	—	—
Locomotive operating occupations	—	—	—	—	—	—	—	—	—	—	—	—
Railroad brake, signal, and switch operators	—	—	2	—	—	—	—	—	8	—	—	—
Rail vehicle operators, n.e.c.	—	—	27	—	52	6	13	7	—	—	—	—
Water transportation occupations	—	—	—	—	—	—	—	—	—	—	—	—
Ship captains and mates, except fishing boats	—	—	12	—	27	—	—	—	—	—	—	—
Sailors and deckhands	—	—	15	—	25	—	6	—	8	—	—	—
Marine engineers	—	—	—	—	—	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators	2 749	309	7 653	1 316	4 745	740	2 842	599	4 326	866	1 563	102
Supervisors, material moving equipment operators	20	—	155	7	14	15	77	—	62	10	36	13
Operating engineers	41	—	—	—	72	—	22	—	—	—	—	—
Longshore equipment operators	—	—	155	—	15	—	—	—	—	—	—	—
Hoist and winch operators	—	—	—	—	7	—	—	—	—	—	—	—
Cone and tower operators	—	—	—	—	6	—	—	—	—	—	—	—
Excavating and loading machine operators	—	—	—	—	20	—	—	—	—	—	—	—
Grader, dozer, and scraper operators	19	—	—	—	8	—	9	—	—	—	—	—
Industrial truck and tractor equipment operators	498	27	3 899	272	2 431	364	1 351	219	2 819	346	1 185	62
Miscellaneous material moving equipment operators	2 169	282	3 395	1 030	1 793	336	1 355	376	1 397	498	274	32

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.													
Printing, publishing, and allied industries				Chemicals and allied products									
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
6 322	1 594	35 213	15 797	13 963	5 619	11 223	7 030	13 255	7 720	4 505	936	5 398	806
16	—	40	6	42	—	—	—	12	—	—	—	8	—
13	3	37	—	74	16	40	10	—	—	13	—	13	—
7	—	48	—	34	—	18	—	22	—	38	—	48	—
—	—	—	—	34	—	18	—	22	—	38	—	29	—
—	—	—	—	—	—	—	—	—	—	—	—	19	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
133	—	167	8	246	14	65	7	21	—	41	5	88	—
482	70	5 407	1 285	491	113	238	87	190	50	102	14	117	46
1 788	297	6 145	1 810	1 975	525	1 397	472	1 664	295	566	50	1 422	104
9	—	23	—	3	—	2	—	13	9	—	—	—	—
208	81	1 438	382	346	89	349	180	339	97	133	24	341	67
482	181	3 154	1 209	894	337	631	211	278	75	64	12	265	18
1 082	35	1 530	219	732	99	415	79	1 034	114	369	14	816	19
87	13	12	6	46	—	2	—	7	7	—	—	2	—
129	5	476	52	469	96	355	140	190	45	106	—	52	11
775	289	11 768	7 354	4 209	2 975	6 869	5 579	7 309	6 048	1 005	546	795	388
2 772	917	11 813	5 276	6 377	1 880	2 239	735	3 840	1 275	2 634	321	2 853	257

Employed persons 16 years and over—Con.	
Operators, fabricators, and laborers—Con.	
Handlers, equipment cleaners, helpers, and laborers	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	
Helpers, mechanics and repairers	
Helpers, construction and extractive occupations	
Helpers, construction trades	
Helpers, surveyor	
Helpers, extractive occupations	
Construction laborers	
Production helpers	
Freight, stock, and material handlers	
Garbage collectors	
Stewards	
Stock handlers and buggers	
Machine feeders and offbearers	
Freight, stock, and material handlers, n.e.c.	
Garage and service station related occupations	
Vehicle washers and equipment cleaners	
Hand packers and packagers	
Laborers, except construction	

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Helpers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, electrical
 Helpers, except
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stewards
 Stock handlers and loaders
 Machine feeders and operators
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Head packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.

	Chemicals and allied products—Con.			Petroleum and coal products			Miscellaneous petroleum and coal products			Tires and inner tubes			Other rubber products, and plastics footwear and belting			Miscellaneous plastics products		
				Petroleum refining														
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
United States																		
Industrial and miscellaneous chemicals	555 154	104 295	183 296	30 491	5 265	48 945	6 413	142 963	31 792	449 907	173 048							
Managers and professional specialty occupations	123 810	15 036	40 477	5 511	661	4 806	447	16 982	2 009	54 721	8 240							
Executive, administrative, and managerial occupations	66 187	8 888	23 190	3 458	559	3 223	307	10 996	1 435	40 619	6 356							
Legislators, clerical, sales, and general administrators																		
Public administration																		
Administrators and officials, public administration																		
Federal																		
State																		
Local																		
Administrators, protective services	2 772	354	1 122	59	16	178	37	519	51	1 955	354							
Financial managers	1 965	340	689	94	29	115	18	361	74	1 559	495							
Personnel and labor relations managers	7 990	451	278	36	59	23	12	92	8	520	51							
Purchasing managers	36		6			10		182	109	27	13							
Managers, marketing, advertising, and public relations	33		184	9				8		30	8							
Administrators, education and related fields																		
Managers, medicine and health																		
Managers, properties and real estate																		
Postmasters and mail superintendents																		
Managers and administrators, n.e.c.	35 904	3 060	10 481	569	204	1 793	115	6 468	664	24 240	2 463							
Federal directors	35 418	3 024	10 386	548	204	1 720	113	6 398	664	23 464	2 366							
Managers and administrators, n.e.c.	486	36	95	11	55	73	2	120	529	776	97							
Self-employed	16 767	4 659	9 522	2 692	813	664	125	2 360	306	7 993	2 566							
Management related occupations	8 266	2 420	5 881	1 810	457	385	103	1 185	306	3 940	1 359							
Accountants and auditors	6		433	101	26	32		62	11	205	58							
Underwriters	691	173	17	17	7	22		15	11	199	63							
Other financial officers	713	79	259	397	119	144	6	587	126	1 712	458							
Management analysts	2 898	801	1 459															
Personnel, training, and labor relations specialists																		
Purchasing agents and buyers, farm products	3 350	1 091	1 088	244	31	77	14	398	67	1 807	577							
Buyers, wholesale and retail trade except farm products	76		14	8		2		9	2	30	6							
Purchasing agents and buyers, n.e.c.	37		20					43	4	44	18							
Business and promotion agents	600	51	261	8	2	2	2			50	21							
Construction inspectors	130	38	107	63														
Inspectors and compliance officers, except construction																		
Management related occupations, n.e.c.																		
Professional specialty occupations	57 623	6 148	17 287	2 053	102	1 138	140	5 986	574	14 102	1 904							
Engineers, architects, and surveyors	30 447	1 308	9 816	415	8	578	34	3 961	165	9 344	611							
Engineers	46		29					9		21	4							
Architects	30 392	1 306	9 780	415	8	578	34	3 952	165	9 318	607							
Engineers	39		18					6		13	6							
Aerospace engineers	268	16	175					31		59	21							
Metalurgical and materials engineers	47		21					6		10								
Mining engineers	153	32	121	56	6	247	6	1 078	22	1 139	48							
Petroleum engineers	19 742	848	3 844	214	6	138	5	54		155	8							
Chemical engineers	233	20	6	21		26		13		5	6							
Nuclear engineers	808	51	485	21				207		371	370							
Civil engineers			16	16				426		371	19							
Agricultural engineers	1 170	23	519	8				20		2652	150							
Electrical and electronic engineers	3 266	222	683	23	2	80	20	1 029	129	1 508	370							
Industrial engineers	1 728	57	935	19		98		498		508	19							
Mechanical engineers	41		31															
Marine engineers and naval architects			1 833	68		281	3	1 030	14	3 399	150							
Engineers, n.e.c.	2 897	9	7							5								
Surveyors and mapping scientists																		
Mathematical and computer scientists	2 967	577	1 897	377	41	65	23	355	110	621	149							
Computer systems analysts and scientists	1 794	316	1 255	246	24	35	11	181	62	397	63							
Operations and systems researchers and analysts	9	135	543	104	10	13	11	109	24	161	30							
Actuaries	212	116	93	27		17	12	65		56	7							
Statisticians	25		6															
Mathematical scientists, n.e.c.																		

Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Manufacturing, nondurable goods—Con.									
Chemicals and allied products—Con.		Petroleum and coal products				Rubber and miscellaneous plastics products			
Industrial and miscellaneous chemicals		Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
18 040	2 608	2 741	536	346	53	126	7	897	63
16 223	2 224	2 085	482	295	42	126	7	852	57
52	12	5	5	12	—	—	—	8	—
193	30	499	33	15	—	—	—	6	—
126	12	40	—	—	—	—	—	6	—
134	23	12	5	—	11	—	—	12	—
663	178	11	—	24	—	—	—	23	—
24	92	16	11	—	—	—	—	—	—
315	8	32	—	—	—	—	—	6	—
221	61	61	—	—	—	—	—	6	—
206	8	—	—	—	—	—	—	6	—
6	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
542	474	184	177	—	—	43	43	162	155
494	469	177	177	—	—	43	43	162	155
10	2	5	—	—	—	—	—	—	—
15	2	—	—	—	—	—	—	—	—
20	3	—	—	—	—	—	—	—	—
3	3	2	—	—	—	—	—	—	—
54	20	2	27	—	—	15	7	7	7
262	—	98	—	—	—	48	—	41	21
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
262	20	98	27	—	—	48	—	41	21
5	5	96	90	8	8	7	2	20	7
288	225	89	83	8	8	2	2	11	7
281	218	7	7	—	—	5	—	9	—
7	7	—	—	—	—	—	—	—	—
1 524	298	537	79	35	—	24	—	55	—
1 499	288	503	64	35	—	24	—	55	—
4	—	17	7	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
10	10	17	8	—	—	—	—	—	—
11	—	7	—	—	—	—	—	—	—
61	—	—	—	—	—	4	—	6	—
48	—	—	—	—	—	4	—	6	—
8	—	—	—	—	—	—	—	—	—
5	—	7	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
996	97	835	98	27	—	26	5	87	—
996	97	835	98	27	—	26	5	87	—
2 216	528	1 013	254	103	33	50	19	389	40
203	20	89	21	—	—	5	—	8	2
889	57	314	38	44	10	23	6	212	9
15	—	—	—	—	—	—	—	—	—
211	107	49	24	14	9	15	6	9	—
108	5	58	11	—	—	—	—	41	8
—	—	—	—	—	—	—	—	17	—
13	8	—	—	—	—	—	—	44	—
231	110	70	42	7	7	—	—	36	—
498	154	395	105	38	7	7	7	41	15
13	—	—	—	—	—	—	—	61	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.

	Chemicals and allied products—Con.			Petroleum and coal products			Miscellaneous petroleum and coal products			Tires and inner tubes			Other rubber products, and plastics footwear and belting			Miscellaneous plastics products		
	Industrial and miscellaneous chemicals			Petroleum refining			Miscellaneous petroleum and coal products			Tires and inner tubes			Other rubber products, and plastics footwear and belting			Miscellaneous plastics products		
	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
Employed persons 16 years and over—Con.																		
Technical, sales, and administrative support occupations.....	146 731	66 085	42 333	20 895	7 032	3 504	7 268	2 927	22 997	10 422	70 134	38 563						
Technicians and related support occupations.....	41 336	7 462	11 293	1 735	887	107	1 033	160	3 977	592	10 335	2 101						
Health technologists and technicians.....	680	226	118	41	14	107	18	18	53	9	110	24						
Clinical laboratory technologists and technicians.....	204	112	34	16	—	—	—	—	—	—	23	5						
Dental hygienists.....	8	8	8	—	—	—	—	—	—	—	5	8						
Health record technicians and technicians.....	39	16	—	—	—	—	—	—	—	—	8	8						
Radiologic technicians.....	24	24	—	—	—	—	—	—	—	—	5	5						
Licensed practical nurses.....	405	66	76	25	14	—	18	18	6	6	61	5						
Health technologists and technicians, n.e.c.....	8 366	1 088	3 635	471	231	23	525	55	2 172	307	5 714	1 156						
Engineering and related technologists and technicians.....	1 664	67	793	32	28	—	81	—	212	6	415	52						
Electrical and electronic technicians.....	120	15	36	—	25	—	16	—	13	2	112	13						
Mechanical engineering technicians.....	193	791	1 427	255	93	12	318	53	1 540	275	3 429	894						
Industrial engineering technicians.....	3 728	774	1 221	184	76	6	91	2	382	24	1 613	188						
Engineering technicians, n.e.c.....	2 580	81	61	—	9	5	—	—	—	—	20	9						
Drafting occupations.....	26 411	4 974	5 133	751	510	60	189	28	659	90	1 938	427						
Surveying and mapping technicians.....	376	101	65	2	—	—	—	—	57	1	86	20						
Science technicians.....	24 325	4 478	3 854	543	395	39	67	20	296	18	981	104						
Biological technicians.....	1 710	395	108	206	122	21	122	8	306	71	303	104						
Chemical technicians.....	5 879	1 174	2 407	472	232	24	301	59	1 093	186	2 573	494						
Science technicians, n.e.c.....	88	—	147	—	—	—	7	—	22	—	60	2						
Technicians, except health, engineering, and science.....	49	8	20	6	—	—	—	—	—	—	7	7						
Airplane pilots and navigators.....	2 049	652	1 156	297	44	16	141	39	469	113	861	233						
Air traffic controllers.....	95	6	11	—	—	—	2	—	—	—	30	—						
Broadcast equipment operators.....	95	6	11	—	—	—	8	—	37	—	30	—						
Computer programmers.....	122	85	77	34	4	2	2	—	18	—	236	—						
Tool programmers, numerical control.....	3 476	423	996	135	59	6	143	18	565	54	1 587	—						
Legal assistants.....	25 330	2 294	2 384	289	1370	116	1 370	85	3 164	366	8 706	1 644						
Technicians, n.e.c.....	1 395	134	228	7	83	6	308	243	264	5	764	103						
Sales occupations.....	1 374	134	228	7	12	—	308	21	243	5	709	97						
Supervisors and proprietors, sales occupations.....	21	—	15	3	12	—	6	—	29	10	94	15						
Soldiers.....	105	27	108	3	—	—	—	—	—	—	—	—						
Self-employed.....	58	7	91	—	7	—	—	—	2	—	30	—						
Sales representatives, finance and business services.....	47	20	17	3	5	—	6	—	27	10	64	—						
Insurance sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—						
Real estate sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—						
Securities and financial services sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—						
Advertising and related sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—						
Sales occupations, other business services.....	23 409	1 870	2 070	169	1 232	95	955	51	2 771	290	7 542	1 329						
Sales representatives, commodities, except retail.....	768	117	128	—	30	—	46	—	106	—	504	22						
Sales engineers.....	22 641	1 853	1 942	169	1 202	95	909	51	2 665	290	7 038	1 307						
Sales representatives, mining, manufacturing, and wholesale.....	415	257	163	80	23	—	60	34	98	4	296	191						
Sales workers, retail and personal services.....	49	2	6	—	3	—	—	—	10	—	52	4						
Sales workers, commodities.....	250	191	128	65	15	15	52	34	51	43	161	141						
Sales counter clerks.....	108	64	27	15	—	—	8	—	37	12	69	38						
Cashiers.....	6	6	—	—	—	—	—	—	—	—	6	—						
Street and door-to-door sales workers.....	6	6	—	—	—	—	—	—	2	2	10	6						
News vendors.....	—	—	—	—	—	—	—	—	—	—	—	—						
Sales related occupations.....	—	—	—	—	—	—	—	—	—	—	—	—						
Demonstrators, promoters and models, sales.....	—	—	—	—	—	—	—	—	—	—	—	—						
Auctioneers.....	6	6	—	—	—	—	—	—	—	—	—	—						
Sales support occupations, n.e.c.....	80 065	56 329	28 456	18 901	4 775	3 281	4 906	2 682	15 856	9 464	51 093	34 818						
Administrative support occupations, including clerical.....	4 922	1 551	2 447	446	434	119	383	99	931	162	4 103	1 305						
Supervisors, administrative support occupations.....	1 997	891	805	359	179	92	281	53	772	85	1 138	690						
Supervisors, general office.....	425	101	277	138	13	33	151	—	89	—	151	28						
Supervisors, computer equipment operators.....	1 421	491	833	192	90	25	124	39	189	52	850	364						
Supervisors, financial records processing.....	60	6	22	—	—	—	—	—	—	—	15	13						
Supervisors, financial operations.....	1 019	62	310	49	152	2	111	7	374	10	1 913	51						
Chief communications operators.....	2 700	1 402	1 567	610	321	77	221	64	595	266	1 586	1 022						
Supervisors, distribution, scheduling, and adjusting clerks.....	2 503	1 306	1 525	581	140	77	214	7	544	10	1 933	1 022						
Computer equipment operators.....	197	96	29	29	140	77	214	7	544	10	1 933	1 022						
Peripheral equipment operators.....	—	—	—	—	—	—	—	—	—	—	—	—						

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A)

United States				Manufacturing, nondurable goods—Con.			
Chemicals and allied products—Con.				Petroleum and coal products		Rubber and miscellaneous plastics products	
Industrial and miscellaneous chemicals				Petroleum refining		Miscellaneous petroleum and coal products	
Total	Female	Total	Female	Total	Female	Total	Female
28 576	28 254	8 335	8 258	1 336	1 318	1 120	1 092
25 510	25 510	7 346	7 346	1 184	1 168	990	969
402	402	186	182	15	15	17	17
2 434	2 342	803	803	137	135	113	106
1 707	1 485	630	570	119	110	80	60
203	161	181	170	22	13	36	24
102	34	46	16	—	—	—	—
1 233	1 213	358	339	97	97	30	30
169	77	45	42	—	—	14	6
3 859	2 485	1 104	749	302	232	329	105
148	122	17	6	—	—	5	5
1 865	1 346	292	165	20	20	154	60
234	222	141	146	18	18	20	20
101	95	25	6	—	—	106	106
1 326	767	537	369	58	40	162	12
153	121	66	48	—	—	26	8
9 051	7 575	4 701	3 428	867	714	564	521
6 923	5 893	3 740	2 763	581	493	367	306
1 029	832	368	252	129	101	93	86
716	634	348	306	133	117	70	70
321	160	145	65	19	3	23	18
62	49	60	42	5	—	11	11
241	112	198	110	15	11	7	—
139	75	46	37	15	11	—	—
12	10	—	73	—	—	7	—
90	27	152	73	—	—	—	—
657	517	220	174	42	42	34	34
644	511	220	174	42	42	34	34
6	6	—	—	—	—	—	—
1 107	441	544	260	34	13	67	43
—	—	—	—	—	—	—	—
952	388	418	217	27	13	—	—
135	53	126	43	—	—	39	37
3 592	3 393	785	728	192	192	28	6
208	37	498	83	14	14	1 335	201
3 119	839	848	206	48	48	7	—
6 319	1 092	734	109	313	313	339	96
3 934	1 187	972	213	53	53	516	32
—	—	—	—	171	171	347	30
640	94	154	20	86	27	53	6
29	6	44	9	33	7	—	—
749	293	121	82	—	—	73	37
n.e.c.	n.e.c.	—	—	—	—	—	—
90	44	22	6	—	—	—	—
1 005	520	368	167	76	33	138	71
—	—	—	—	—	—	—	—
876	415	298	127	58	20	83	48
129	105	70	40	18	13	55	23
11 152	8 195	4 949	3 201	625	420	628	392
6 037	4 744	2 637	1 796	346	248	312	242
—	—	—	—	—	—	—	—
33	18	13	13	—	—	—	—
2 489	2 316	1 202	999	173	155	120	103
852	493	389	191	16	16	110	33
8	8	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Chemicals and allied products—Con.				Petroleum and coal products				Rubber and miscellaneous plastics products			
	Industrial and miscellaneous chemicals		Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting		Miscellaneous plastics products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Service occupations	17 302	2 345										
Private household occupations	4 077	367										
Protective service occupations	141	8										
Supervisors, protective service occupations	4											
Supervisors, firefighting and fire prevention occupations	137	8										
Supervisors, police and detectives	338	8										
Supervisors, guards	109	8										
Freight and fire prevention occupations	229	8										
Fire inspection and fire prevention occupations												
Freight occupations												
Police and detectives												
Police and detectives, public service												
Sheriffs, bailiffs, and other law enforcement officers												
Correctional institution officers												
Guards	3 598	351										
Crossing guards	3 582	351										
Guards and police, except public service	16											
Protective service occupations, n.e.c.												
Service occupations, except protective and household	13 225	1 978										
Food preparation and service occupations	462	299										
Supervisors, food preparation and service occupations	48	33										
Bar tenders	7	2										
Waiters and waitresses	48	39										
Cooks, except short order	126	72										
Short-order cooks	2	2										
Food counter, fountain and related occupations	21	12										
Kitchen workers, food preparation	12	10										
Waiters' and waitresses' assistants	22	10										
Miscellaneous food preparation occupations	176	124										
Health service occupations	107	44										
Dental assistants	56	23										
Health aides, except nursing	51	21										
Nursing aides, orderlies, and attendants	12 536	1 591										
Cleaning and building service occupations, except household	346	6										
Supervisors, cleaning and building service workers	493	135										
Maid and housemen	11 673	1 489										
Janitors and cleaners	13	5										
Elevator operators	11	6										
Pest control occupations												
Personal service occupations	120	44										
Supervisors, personal service occupations	8	8										
Barbers	3											
Hairdressers and cosmetologists	13	6										
Attendants, amusement and recreation facilities	10											
Guides	50	17										
Ushers												
Public transportation attendants												
Baggage porters and bellhops	5											
Welfare service aides	2											
Child care workers, except private household	29	13										
Personal service occupations, n.e.c.												
Farming, forestry, and fishing occupations	316	45										
Farm operators and managers	6	6										
Farm occupations, except managerial	246	28										
Related agricultural occupations												
Supervisors, related agricultural occupations	186	21										
Groundskeepers and gardeners, except farm	60	7										
Animal caretakers, except farm												
Graders and sorters, agricultural products												
Inspectors, agricultural products												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Chemicals and allied products—Con.				Petroleum and coal products				Manufacturing, nondurable goods—Con.			
				Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Rubber and miscellaneous plastics products	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Farming, forestry, and fishing occupations—Con.											
Forestry and logging occupations											
Supervisors, forestry and logging workers											
Forestry workers, except logging											
Timber cutting and logging occupations											
Fishers, hunters, and trappers											
Captains and other officers, fishing vessels											
Fishers											
Hunters and trappers											
Precision production, craft, and repair occupations											
Mechanics and repairers											
Supervisors, mechanics and repairers											
Mechanics and repairers, except supervisors											
Vehicle and mobile equipment mechanics and repairers											
Automobile mechanics											
Bus, truck, and stationary engine mechanics											
Aircraft engine mechanics											
Small engine repairers											
Automobile body and related repairers											
Aircraft mechanics, except engine											
Heavy equipment mechanics											
Farm equipment mechanics											
Industrial machinery repairers											
Machinery maintenance occupations											
Electrical and electronic equipment repairers											
Electronic repairers, communications and industrial equipment											
Data processing equipment repairers											
Household appliance and power tool repairers											
Telephone line installers and repairers											
Telephone installers and repairers											
Miscellaneous electrical and electronic equipment repairers											
Heating, air conditioning, and refrigeration mechanics											
Miscellaneous mechanics and repairers											
Camera, watch, and musical instrument repairers											
Locksmiths and safe repairers											
Office machine repairers											
Mechanical controls and valve repairers											
Elevator installers and repairers											
Millwrights											
Specified mechanics and repairers, n.e.c.											
Not specified mechanics and repairers											
Construction trades											
Supervisors, construction occupations											
Supervisors: brickmasons, stonemasons, and tile setters											
Supervisors: carpenters and related workers											
Supervisors: electricians and power transmission installers											
Supervisors: painters, paperhangers, and plasterers											
Supervisors: plumbers, pipefitters, and steamfitters											
Supervisors, n.e.c.											
Construction trades, except supervisors											
Brickmasons and stonemasons											
Tile setters, hard and soft											
Carpet installers											
Carpenters											
Drywall installers											
Electricians											
Electrical power installers and repairers											
Painters, construction and maintenance											
Paperhangers											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

United States

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Construction trades—Con.
Construction trades, except supervisors—Con.

Plumbers, pipefitters, and steamfitters	5	35	—	62	—	174	9	—	372	—	774	22	—	31	11
Concrete and masonry finishers	7 716	—	30	—	—	—	—	—	—	—	—	—	—	997	33
Glaziers	27	—	—	—	—	—	—	—	—	—	—	—	—	20	14
Insulation workers	12	25	813	25	—	56	—	—	2	—	43	—	—	15	7
Paving, surfacing, and tamping equipment operators	1 215	—	9	—	—	110	7	—	5	—	2	—	—	151	—
Roofers	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheetmetal duct installers	22	—	—	—	—	—	—	—	—	—	14	7	—	22	15
Structural metal workers	57	—	—	—	—	—	—	—	—	—	11	—	—	15	—
Drillers, earth	95	—	59	—	—	—	—	—	5	—	—	—	—	18	10
Construction trades, n.e.c.	2	—	—	—	—	—	—	—	6	—	12	—	—	85	22
Supervisors, extractive occupations	73	29	126	43	—	15	—	—	3	—	10	2	—	60	12
Drillers, oil well	477	9	866	318	—	2	—	—	—	—	—	—	—	5	—
Explosives workers	76	—	259	36	—	—	—	—	—	—	—	—	—	—	—
Mining machine operators	—	18	23	7	—	6	—	—	2	—	—	—	—	38	8
Mining occupations, n.e.c.	61	—	79	—	—	—	—	—	—	—	10	2	—	11	4
Supervisors, extractive occupations	118	2	187	—	—	7	—	—	1	—	—	—	—	6	—
Precision production occupations	57 043	2 406	32 128	789	—	2 836	111	—	4 411	263	13 629	1 112	—	52 029	6 398
Supervisors, production occupations	42 842	1 719	15 322	319	—	2 139	87	—	3 113	141	9 973	701	—	34 054	4 256
Precision metalworking occupations	6 715	154	4 449	76	—	311	10	—	2 458	24	2 458	128	—	15 074	1 394
Tool and die makers	314	9	58	—	—	17	—	—	84	—	312	—	—	3 823	77
Precision assemblers, metal	32	15	—	—	—	6	—	—	—	—	10	—	—	64	9
Mechanics	4 776	95	3 040	69	—	255	10	—	435	21	1 895	91	—	10 225	1 107
Boilermakers	890	11	1 172	7	—	16	—	—	2	—	29	—	—	51	—
Precision grinders, filers, and tool sharpeners	47	7	9	—	—	3	—	—	6	—	25	—	—	64	8
Patternmakers and model makers, metal	40	7	26	—	—	—	—	—	11	—	25	—	—	207	18
Lay-out workers	25	—	—	—	—	—	—	—	5	—	40	—	—	71	15
Precious stones and metals workers (jewelers)	24	—	—	—	—	—	—	—	3	—	18	—	—	10	8
Engravers, metal	19	—	7	—	—	—	—	—	25	3	79	6	—	314	131
Sheet metal workers	527	6	129	—	—	14	—	—	—	—	—	—	—	205	15
Miscellaneous precision metal workers	21	—	—	—	—	—	—	—	—	—	2	—	—	40	6
Precision woodworking occupations	41	—	6	—	—	12	—	—	37	—	—	—	—	284	25
Patternmakers and model makers, wood	5	—	—	—	—	6	—	—	25	—	—	—	—	103	2
Cabinet makers and bench carpenters	—	—	—	—	—	6	—	—	—	—	—	—	—	101	—
Furniture and wood finishers	6	—	—	—	—	—	—	—	5	—	—	—	—	20	16
Miscellaneous precision woodworkers	30	—	—	—	—	—	—	—	7	—	—	—	—	60	7
Precision textile, apparel, and furnishings machine workers	73	32	25	—	—	—	—	—	13	8	240	185	—	565	382
Dressmakers	27	21	5	—	—	—	—	—	13	8	25	15	—	81	56
Tailors	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Upholsterers	—	—	—	—	—	—	—	—	—	—	18	—	—	—	9
Shoe repairers	13	—	9	—	—	—	—	—	—	—	187	155	—	42	9
Apparel and fabric patternmakers	28	11	11	—	—	—	—	—	—	—	3	—	—	398	273
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	—	—	—	—	7	2	—	30	14
Precision workers, assorted materials	284	56	112	10	—	20	—	—	63	13	87	24	—	641	179
Hand makers and shapers, except jewelers	86	15	15	6	—	—	—	—	23	—	12	—	—	249	32
Patternmakers, lay-out workers, and others	27	—	—	—	—	—	—	—	—	—	11	—	—	61	8
Optical goods workers	—	—	—	—	—	—	—	—	—	—	5	5	—	29	13
Beauty, laboratory and medical appliance technicians	6	—	—	—	—	—	—	—	—	—	—	—	—	9	—
Bookbinders	16	—	2	—	—	—	—	—	—	—	—	—	—	9	—
Electrical and electronic equipment assemblers	58	27	18	4	—	5	—	—	—	—	11	7	—	109	103
Miscellaneous precision workers, n.e.c.	91	2	77	—	—	15	—	—	40	13	48	12	—	175	14
Precision food production occupations	97	—	—	—	—	6	—	—	—	—	42	1	—	107	38
Butchers and meat cutters	76	—	24	—	—	6	—	—	—	—	35	—	—	65	7
Bakers	8	—	16	—	—	6	—	—	7	—	—	—	—	42	31
Food batchmakers	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers	226	29	144	11	—	19	—	—	396	70	322	67	—	267	106
Inspectors, testers, and graders	219	29	144	11	—	19	—	—	322	70	322	67	—	264	106
Adjusters and calibrators	7	—	—	—	—	—	—	—	—	—	—	—	—	3	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

	Chemicals and allied products—Con.				Petroleum and coal products				Rubber and miscellaneous plastics products			
	Industrial and miscellaneous chemicals				Petroleum refining				Miscellaneous petroleum and coal products			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Food and system operators	6 765	416	12 046	373								
Water and sewage treatment plant operators	494	13	68		329		218	7	507	6	1 037	18
Power plant operators	361	17	280	26	3		58		6		23	5
Stationary engineers	2 610	81	1 743	25	167		124		73		64	7
Miscellaneous plant and system operators	3 300	305	9 955	302	159		36	7	48		765	167
Operators, fabricators, and laborers	159 431	17 440	42 739	2 169	12 360	851	26 791	2 480	76 219	17 554	237 316	116 801
Machine operators, assemblers, and inspectors	112 870	12 980	24 745	1 297	6 680	543	20 261	2 008	40 785	14 825	189 577	98 060
Metalworking and plastic working machine operators	95 522	8 776	17 747	1 073	5 394	354	16 081	1 395	47 295	9 919	142 950	67 296
Lathe and turning machine set-up operators	18	223	370	35	156	12	512	4	1 393	335	6 765	2 689
Lathe and turning machine operators	325	22	136	4	2		8		6		100	6
Milling and planing machine operators	131	2	119	3	41		28		241		1 038	201
Punching and stamping press machine operators	463	52	119	1	14		21		77		168	18
Rolling machine operators	16	5	64	2	10		157	24	312	145	2 300	1 474
Drilling and boring machine operators	113	15	64	2	22	5	13		85	56	75	42
Grinding, abrading, buffing, and polishing machine operators	552	104	24		61	3	121		108	26	349	92
Forging machine operators	14	1			2		16		431	86	2 265	663
Universal control machine operators	8								31	9	167	66
Miscellaneous metal, plastic, stone, and glass working machine operators	107	22	20		4	4	94	21			21	2
Fabricating machine operators, n.e.c.	76	31	10						102	15	282	125
Metal and plastic processing machine operators	1 055	203	182	136	154		6		87		226	87
Molding and casting machine operators	451	127	83	13	91	6	753	135	4 253	1 174	27 032	14 987
Metal plating machine operators	390	50	711	133	36	6	13	3	4 035	1 131	26 076	14 724
Heat treating equipment operators	72	8	7		13		10		37	16	349	56
Miscellaneous metal and plastic processing machine operators	142	18	77		14		19	2	2		33	2
Woodworking machine operators	108	20	14		42		52		181	24	574	205
Wood lathe, routing, and planing machine operators	69	20	8		28				603	227	1 781	854
Sawing machine operators	14		5		14		4				14	7
Shaping and planing machine operators					14		48		337	131	642	186
Routing and tapping machine operators					14				221	81	1 027	624
Miscellaneous woodworking machine operators	15		1						9		30	24
Printing machine operators	767	214	108	11	37	14	59	14	312	117	2 070	851
Photoengravers and lithographers	632	166	88	5	25	7	52	14	263	100	1 839	796
Typesetters and compositors	48	8			7	7			6		58	
Miscellaneous printing machine operators	59	40	20	6	7	7			9	3	37	9
Textile, apparel, and furnishings machine operators	897	266	140	41	16	5	397	77	34	14	136	46
Winding and twisting machine operators	70	23			6		89	38	1 666	1 137	5 380	3 770
Knitting, looping, taping, and weaving machine operators	37	12	4		5	5	28	7	95	2	143	69
Textile cutting machine operators	5						13		13		75	25
Textile sewing machine operators	295	123	31	23			42	20	22		35	28
Shoe machine operators	11	2	27	12	3		22	2	1 036	918	3 084	2 647
Pressing machine operators	20		6						293	181	1 041	626
Laundry and dry cleaning machine operators	173	48	2						16		14	12
Miscellaneous textile machine operators	286	38	70	6					2		15	14
Machine operators, assorted materials	90 872	7 819	16 918	972	4 989	317	14 302	1 122	189	27	99 696	44 058
Generating and driving machine operators	291	108	29	9			284	41	38 981	6 915	1 311	982
Packaging and filling machine operators	2 256	667	267	37	162	33	120	29	510	306	1 477	1 021
Extruding and forming machine operators	488	88	7	5	16		174	120	218	94	4 775	551
Mixing and blending machine operators	10 775	295	2 941	120	482		484	8	1 470	34	3 434	176
Separating, filtering, and clarifying machine operators	28 170	1 207	1 719	77	174	14	21	8	75	21	658	79
Compressing and compacting machine operators	816	119	105	4	15	8	88	7	276	89	2 597	217
Painting and paint spraying machine operators	1 229	85	298	16	65		139	4	494	166	1 189	109
Roasting and baking machine operators, food	121		2		5		3		36		32	15
Washing, cleaning, and picking machine operators	55		6				9	2			71	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A)

United States

United States

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.	195	25	4	2	34	3	480	360
Machine operators, assemblers, and inspectors—Con.	7 502	247	142	—	414	60	902	85
Machine operators and tenders, except precision—Con.	2 137	100	63	—	442	96	748	210
Machine operators, assorted materials—Con.	590	120	642	106	3 311	1 214	6 285	2 734
Folding machine operators	16	—	—	—	—	—	—	—
Furnace, kiln, and oven operators, except food	223	59	18	10	22	—	168	94
Crushing and grinding machine operators	9 816	1 265	9 255	1 876	18 315	2 802	21 802	8 434
Motion picture projectionists	26 192	3 434	2 856	2 783	12 085	2 783	54 363	27 897
Photographic process machine operators	12 519	2 864	775	248	6 611	2 388	28 493	17 305
Miscellaneous machine operators, n.e.c.	6 689	1 105	296	14	896	47	2 299	352
Machine operators, not specified	5 447	32	464	233	5 249	13	151	115
Fabricators, assemblers, and hand working occupations	4 829	1 340	2 456	114	6 879	2 518	18 134	13 459
Welders and cutters	4 052	1 200	2 031	364	5 927	2 298	17 288	12 980
Solders and brazers	119	8	16	18	151	44	230	98
Assemblers	122	4	9	7	16	161	161	78
Hand cutting and trimming occupations	119	6	329	63	785	176	455	297
Hand molding, casting, and forming occupations	3	17	—	—	—	—	—	—
Hand painting, coating, and decorating occupations	61	—	13	—	148	53	425	284
Hand engraving and tooling occupations	4 829	1 340	2 456	114	6 879	2 518	18 134	13 459
Hand grinding and polishing occupations	4 052	1 200	2 031	364	5 927	2 298	17 288	12 980
Miscellaneous hand working occupations	348	30	8	18	151	44	230	98
Production inspectors, testers, samplers, and weighers	275	32	8	7	16	161	161	78
Production inspectors, checkers, and examiners	154	78	9	63	785	176	455	297
Production testers	593	199	364	114	5 765	368	15 120	2 175
Graders and sorters, except agricultural	11 353	9	2 365	33	2 102	13	5 027	199
Transportation and material moving occupations	21 424	593	2 365	114	5 765	368	15 120	2 175
Motor vehicle operators	11 353	199	962	33	2 102	13	5 027	199
Supervisors, motor vehicle operators	77	2	—	—	—	—	—	—
Truck drivers, heavy	9 110	153	734	15	1 700	—	3 858	126
Truck drivers, light	567	7	87	14	185	2	868	53
Truck drivers, light	201	20	56	17	29	—	81	14
Driver-sales workers	46	6	6	4	17	—	8	—
Bus drivers	328	31	66	4	163	11	192	6
Taxicab drivers and chauffeurs	8	—	8	—	8	—	—	—
Perkins lot attendants	16	—	—	—	—	—	—	—
Motor transportation occupations, n.e.c.	183	2	10	—	6	—	15	—
Rail transportation occupations	24	2	—	—	—	—	—	—
Railroad conductors and yardmasters	59	25	10	—	6	—	15	—
Locomotive operating occupations	93	58	—	—	—	—	—	—
Railroad brake, signal, and switch operators	7	—	5	—	12	2	11	—
Rail vehicle operators, n.e.c.	75	8	10	—	10	—	5	—
Water transportation occupations	50	8	—	—	—	—	6	—
Ship captains and mates, except fishing boats	10	—	—	—	—	—	—	—
Salts and deckhands	15	—	—	—	—	—	—	—
Marine engineers	—	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	384	3 053	1 388	81	3 645	353	10 067	1 976
Material moving equipment operators	182	58	7	2	18	2	168	15
Supervisors, material moving equipment operators	483	397	3	—	20	—	48	—
Operating engineers	25	8	19	—	31	—	—	—
Longshore equipment operators	47	79	31	—	5	—	12	21
Hoist and winch operators	847	407	2	—	34	6	179	34
Crane and lower operators	195	70	—	—	13	5	13	—
Excavating and loading machine operators	77	43	—	—	4	—	5 742	741
Grader, dozer, and scraper operators	4 993	808	1 065	53	2 797	139	3 871	1 188
Industrial truck and tractor equipment operators	2 989	1 183	261	28	—	201	—	—
Miscellaneous material moving equipment operators	—	—	—	—	—	—	—	—

Manufacturing, nonmetallic goods

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Manufacturing, nondurable goods—Con.											
Chemicals and allied products—Con.		Petroleum and coal products				Rubber and miscellaneous plastics products					
		Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products and plastics footwear and belting		Miscellaneous plastics products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
25 137	3 887	8 802	614	2 850	252	4 165	358	9 669	2 361	32 619	16 566
52	6	14	—	12	—	23	—	38	—	39	8
146	—	166	7	—	—	—	—	9	—	76	8
189	6	177	5	16	—	20	—	5	—	64	23
189	6	177	5	16	—	20	—	5	—	62	21
—	—	—	—	—	—	—	—	—	—	2	2
—	—	—	—	—	—	—	—	—	—	—	—
540	—	414	32	96	13	17	—	53	—	—	—
1 133	3	563	31	116	2	561	14	404	2	168	30
5 191	139	563	31	116	2	561	14	404	100	1 378	307
14	364	1 786	139	566	35	1 001	57	2 926	335	3 743	877
18	—	2	—	—	—	11	—	7	—	25	7
789	8	12	—	—	—	—	—	—	—	—	—
1 133	112	45	6	47	—	72	—	269	51	828	—
3 237	143	238	18	67	12	514	43	1 745	192	1 815	240
—	101	1 489	115	452	23	404	14	905	91	1 872	400
39	—	155	—	2	—	—	—	289	—	—	230
4 652	64	154	8	39	—	658	26	406	4	69	4
12 706	1 783	5 042	331	345	78	1 118	47	1 656	63	553	133
—	1 522	—	329	1 656	118	1 605	185	3 800	1 106	14 623	11 717
—	—	—	—	—	—	—	—	—	—	11 906	3 459

Employed persons 16 years and over—Con.	
Operators, fabricators, and laborers—Con.	
Painters, equipment cleaners, helpers, and laborers	
Supervisors, handlers, equipment cleaners, and laborers	
n.e.c.	
Helpers, mechanics and painters	
Helpers, construction and extractive occupations	
Helpers, construction trades	
Helpers, surveyor	
Helpers, extractive occupations	
Construction laborers	
Production helpers	
Freight, stock, and material handlers	
Garbage collectors	
Street cleaners	
Sanitation workers and janitors	
Machine operators and officers	
Freight, stock, and material handlers, n.e.c.	
Garage and service station related occupations	
Vehicle washers and equipment cleaners	
Hand packers and packagers	
Laborers, except construction	

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors; handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveying
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand product and packers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, nondurable goods—Con.				Manufacturing, durable goods			
	Leather tanning and finishing		Leather and leather products		Lumber and wood products, except furniture			
	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	18 497	3 850	168 610	107 557	13 218 236	3 403 970	142 302	6 851
Managerial and professional specialty occupations	1 332	178	8 349	2 037	1 987 336	263 330	6 496	446
Executive, administrative, and managerial occupations	1 162	150	6 717	1 506	1 136 386	179 645	5 329	332
Leisure, chief executives, and general administrators	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—
Administrators, protective services	—	—	—	—	—	—	—	—
Financial managers	46	14	280	71	44 385	7 149	34	13
Personnel and labor relations managers	45	9	228	70	37 016	8 441	126	4
Purchasing managers	6	—	65	—	18 364	2 121	30	—
Managers, marketing, advertising, and public relations	88	13	603	108	108 724	9 450	128	11
Administrators, education and related fields	6	—	—	—	876	102	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	—	—	—	—	—	—	—	—
Federal directors	—	—	—	—	1 057	163	8	6
Managers and administrators, n.e.c.	794	96	4 077	750	642 907	68 085	3 677	188
Salaried	743	90	3 923	715	607 276	63 715	2 323	156
Self-employed	51	6	154	35	35 631	4 370	1 354	32
Management related occupations	177	12	1 459	507	282 877	84 098	1 326	110
Accountants and auditors	63	6	558	187	124 507	41 009	319	74
Underwriters	—	—	—	—	86	41	—	—
Other financial officers	5	—	20	—	12 946	3 275	3	—
Management analysts	—	—	—	—	8 061	1 474	104	11
Personnel, training, and labor relations specialists	57	—	352	145	52 563	16 251	—	—
Purchasing agents and buyers, farm products	—	—	—	—	78 496	20 941	878	25
Buyers, wholesale and retail trade except farm products	—	—	—	—	575	86	5	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	3 169	421	—	—
Business and promotion agents	—	—	—	—	2 082	552	12	—
Construction inspectors	—	—	—	—	—	—	—	—
Inspectors and compliance officers, except construction	—	—	—	—	—	—	—	—
Management related occupations, n.e.c.	—	—	—	—	—	—	—	—
Professional specialty occupations	170	28	1 632	531	850 950	83 685	1 167	114
Engineers, architects, and surveyors	44	14	573	87	604 701	24 591	274	16
Architects	—	—	—	—	1 210	104	6	—
Engineers	44	14	573	87	603 185	24 467	225	10
Aerospace engineers	—	—	—	—	18 328	2 427	—	—
Metallurgical and materials engineers	—	—	—	—	269	15	6	—
Mining engineers	—	—	—	—	254	7	—	—
Petroleum engineers	—	—	—	—	5 551	369	20	2
Chemical engineers	—	—	—	—	2 202	51	13	—
Nuclear engineers	—	—	—	—	9 152	277	79	6
Civil engineers	—	—	—	—	2 529	71	—	—
Agricultural engineers	—	—	—	—	157 747	4 718	25	—
Electrical and electronic engineers	12	—	8	—	125 846	10 502	24	2
Industrial engineers	24	14	364	80	133 559	2 575	17	—
Mechanical engineers	8	—	63	—	3 773	40	—	—
Marine engineers and naval architects	—	—	—	—	67 444	2 639	41	—
Engineers, n.e.c.	—	—	123	2	306	20	43	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—
Mathematical and computer scientists	—	—	126	38	79 908	14 593	20	—
Computer systems analysts and scientists	—	—	71	12	54 178	9 022	20	—
Operations and systems researchers and analysts	—	—	55	26	20 658	3 913	—	—
Actuaries	—	—	—	—	85	26	—	—
Statisticians	—	—	—	—	3 520	1 470	—	—
Mathematical scientists, n.e.c.	—	—	—	—	1 467	102	—	—
Wood buildings and mobile homes	—	—	—	—	—	—	—	—
Sawmills, planing mills, and millwork	—	—	—	—	—	—	—	—
Miscellaneous wood products	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con.

	Manufacturing, nondurable goods—Con.			Manufacturing, durable goods			Lumber and wood products, except furniture			Miscellaneous wood products								
	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total						
Leather tanning and finishing	84	4	27	10	31	24 908	3 858	66	749	66	1 681	53	5	207	7	53	207	7
Footwear, except rubber and plastic	84	4	22	5	29	15 609	2 738	10	42	10	57	7	—	53	—	7	53	—
Physicians and astronomers	—	—	—	—	—	604	113	—	9	—	—	—	—	—	—	—	—	—
Chemists, except biochemists	—	—	5	5	2	469	38	—	16	—	6	6	—	5	—	—	—	—
Atmospheric and space scientists	—	—	—	—	—	355	48	—	4	—	6	6	—	5	—	—	—	—
Geologists and geodesists	—	—	—	—	—	221	51	—	—	—	—	—	—	—	—	—	—	—
Physical scientists, n.e.c.	—	—	—	—	—	1 313	591	—	671	56	1 602	40	5	12	—	—	—	—
Agricultural and food scientists	—	—	—	—	—	2 494	97	—	—	—	—	—	—	125	—	—	—	—
Biological and life scientists	—	—	—	—	—	210	44	—	—	—	—	—	—	—	—	—	—	—
Forestry and conservation scientists	—	—	—	—	—	1 281	184	—	—	—	6	—	—	—	—	—	—	—
Medical scientists	—	—	—	—	—	887	117	—	—	—	6	—	—	—	—	—	—	—
Health diagnosing occupations	—	—	—	—	—	195	19	—	—	—	—	—	—	—	—	—	—	—
Physicians	—	—	—	—	—	40	20	—	—	—	—	—	—	—	—	—	—	—
Dentists	—	—	—	—	—	84	—	—	—	—	—	—	—	—	—	—	—	—
Veterinarians	—	—	—	—	—	59	22	—	—	—	—	—	—	—	—	—	—	—
Ophthalmologists	—	—	—	—	—	16	6	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses	—	—	45	45	24	10 754	9 966	8	8	—	75	60	—	28	28	60	28	28
Pharmacists	—	—	45	45	24	10 134	9 709	—	—	—	60	60	—	28	28	—	—	—
Dietitians	—	—	—	—	—	155	24	—	8	—	12	—	—	—	—	—	—	—
Therapists	—	—	—	—	—	201	93	—	—	—	3	—	—	—	—	—	—	—
Physicians' assistants	—	—	—	—	—	209	53	—	—	—	15	15	—	2	2	—	—	—
Teachers, postsecondary	6	—	36	36	—	827	207	—	—	—	—	—	—	—	—	—	—	—
Teachers, except postsecondary	—	—	140	128	20	10 524	2 352	4	4	—	7	2	—	49	49	2	2	21
Teachers, prekindergarten and kindergarten	—	—	—	—	—	47	5	—	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and kindergarten	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	355	195	—	—	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	—	—	140	128	20	10 122	2 152	4	4	—	7	2	—	8	8	—	—	—
Teachers, n.e.c.	—	—	—	—	—	515	144	—	—	—	—	—	—	41	41	—	—	—
Counselors, educational and vocational	—	—	7	7	7	2 201	1 724	—	—	—	—	—	—	15	15	—	—	—
Librarians, archivists, and curators	—	—	7	7	7	2 111	1 689	—	—	—	—	—	—	20	20	—	—	—
Librarians	—	—	—	—	—	90	35	—	—	—	—	—	—	20	20	—	—	—
Archivists and curators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	6	—	40	22	42	18 609	4 079	45	45	—	87	26	47	60	5	5	60	5
Ecologists	6	—	40	22	42	18 027	3 995	36	36	—	87	26	47	60	5	5	60	5
Psychologists	—	—	—	—	—	426	70	—	—	—	—	—	—	—	—	—	—	—
Sociologists	—	—	—	—	—	30	1	—	9	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	57	13	—	—	—	—	—	—	—	—	—	—	—
Urban planners	—	—	—	—	—	69	—	—	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	2	—	7	7	12	646	236	—	—	—	14	—	6	—	—	—	—	—
Social workers	—	—	7	7	12	341	158	—	—	—	2	—	—	—	—	—	—	—
Recreation workers	—	—	—	—	—	162	56	—	—	—	6	—	—	—	—	—	—	—
Clergy	2	—	—	—	—	85	9	—	—	—	6	—	6	—	—	—	—	—
Religious workers, n.e.c.	—	—	—	—	—	58	13	—	—	—	—	—	—	—	—	—	—	—
Lawyers and judges	—	—	22	—	5	6 362	643	—	6	—	76	6	5	19	—	—	—	—
Lawyers	—	—	22	—	5	6 362	643	—	6	—	76	6	5	19	—	—	—	—
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	28	10	609	151	454	89 714	21 108	32	61	32	475	175	162	420	176	—	—	—
Authors	—	—	—	—	—	596	193	—	—	—	—	—	—	—	—	—	—	—
Technical writers	26	10	496	107	407	15 040	3 038	5	5	5	5	5	—	12	—	—	—	—
Designers	—	—	—	—	—	45 189	7 297	12	14	12	290	100	121	295	120	—	—	—
Auctioneers and composers	—	—	—	—	—	507	100	—	—	—	5	—	—	—	—	—	—	—
Actors and directors	—	—	2	2	—	649	136	—	—	—	6	—	—	—	—	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	—	—	18	—	9	11 229	4 323	2	2	2	36	24	8	74	37	—	—	—
Photographers	—	—	—	—	—	3 171	508	—	—	—	15	—	—	13	13	—	—	—
Dancers	—	—	—	—	2	22	19	—	—	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	—	—	—	—	17	833	403	—	—	—	—	—	—	—	—	—	—	—
Editors and reporters	—	—	7	7	7	4 554	2 284	—	—	—	13	—	—	—	—	—	—	—
Public relations specialists	—	—	17	17	7	7 611	2 764	—	40	—	9	—	—	—	—	—	—	—
Public relations specialists	—	—	48	13	—	74	28	—	—	—	—	—	—	—	—	—	—	—
Announcers	2	—	—	—	—	239	—	—	—	—	14	—	—	—	—	—	—	—
Athletes	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.										Manufacturing, durable goods									
Leather and leather products										Lumber and wood products, except furniture									
Leather tanning and finishing		Footwear, except rubber and plastic		Leather products, except footwear		Total		Logging		Sawmills, planing mills, and millwork		Wood buildings and mobile homes		Miscellaneous wood products					
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female				
345	345	2 728	2 694	1 205	1 205	410 685	405 684	1 120	1 108	7 151	7 006	1 415	1 395	2 812	2 772				
303	303	2 274	2 250	1 045	1 045	359 156	355 382	1 090	1 078	6 722	6 597	1 367	1 347	2 608	2 568				
2	2	60	60	13	13	4 271	4 184	7	7	32	32	—	—	7	7				
40	40	394	384	147	147	47 258	46 118	23	23	377	377	48	48	197	197				
8	8	281	271	205	205	28 855	26 231	73	67	558	520	111	103	202	196				
—	—	84	74	42	42	2 741	2 266	—	—	16	9	4	4	18	12				
—	—	—	—	9	9	1 168	470	6	6	7	7	—	—	9	9				
8	8	176	176	148	148	22 063	21 586	63	63	459	442	101	93	160	160				
—	—	14	14	13	13	2 883	1 909	4	4	76	62	6	6	15	15				
49	25	1 142	933	340	294	89 876	57 224	93	51	921	417	190	70	488	259				
—	—	13	13	—	—	759	466	—	—	2	2	7	7	—	—				
—	—	17	17	12	12	2 880	1 928	—	—	—	—	—	—	5	5				
34	10	716	563	172	130	35 994	21 523	25	14	449	196	59	36	211	102				
2	2	65	65	24	24	8 484	7 324	24	24	82	82	23	23	18	18				
—	—	—	—	—	—	605	513	—	—	—	—	—	—	—	—				
13	13	306	257	125	121	38 239	23 342	44	13	361	121	101	11	240	122				
—	—	35	28	7	7	2 915	2 089	—	—	23	16	—	—	14	12				
399	369	2 594	2 410	1 069	1 015	202 700	170 411	1 485	1 353	5 896	5 174	886	746	2 099	1 932				
231	215	1 350	1 229	845	809	146 429	127 519	1 361	1 253	4 911	4 334	720	614	1 696	1 563				
120	106	919	874	124	124	32 166	24 740	101	87	112	527	112	105	288	270				
48	48	194	188	79	66	14 293	12 599	21	13	293	262	18	11	86	72				
—	—	95	83	21	16	7 621	4 028	2	2	66	24	36	16	29	27				
—	—	36	36	—	—	2 191	1 525	—	—	27	27	—	—	—	—				
28	—	159	136	2	2	6 016	3 899	4	4	58	36	—	—	19	5				
—	—	47	40	—	—	2 892	1 793	—	—	31	23	—	—	5	5				
5	—	64	55	2	2	442	283	—	—	2	—	—	—	8	—				
23	—	48	41	—	—	2 682	1 823	—	—	25	13	—	—	6	—				
23	18	114	114	86	73	11 218	10 173	18	11	132	120	22	22	45	45				
18	18	108	108	86	73	10 755	9 996	11	11	132	120	22	22	45	45				
5	—	6	6	—	—	322	130	7	—	—	—	—	—	—	—				
—	—	—	—	—	—	141	47	—	—	—	—	—	—	—	—				
—	—	165	131	115	70	15 693	7 289	8	8	278	103	29	18	64	38				
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
—	—	156	131	77	64	12 740	6 423	—	—	213	90	26	18	35	20				
—	—	9	9	38	6	2 953	866	8	8	65	13	3	3	29	18				
491	108	4 599	1 846	1 883	699	436 827	125 820	525	150	5 398	1 272	1 115	143	2 358	790				
—	—	14	14	—	—	4 963	4 437	17	17	59	—	12	6	22	—				
47	22	614	440	188	145	101 381	34 511	63	32	724	265	178	42	309	137				
343	63	2 354	501	1 174	299	135 369	27 598	104	8	1 996	591	256	55	1 283	365				
65	23	1 157	517	349	144	141 336	43 598	185	61	1 361	443	284	40	556	216				
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
16	—	86	74	110	73	11 031	2 664	119	35	1 141	252	4	—	152	52				
—	—	11	6	—	—	264	129	—	—	—	—	—	—	—	—				
20	—	346	277	49	25	39 142	14 253	37	14	102	41	46	—	36	20				
—	—	17	17	13	13	3 341	1 630	—	—	15	15	—	—	—	—				
10	9	309	248	70	64	21 857	10 719	42	7	249	112	83	16	62	40				
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
10	9	247	205	62	56	18 983	8 899	35	7	232	102	74	14	43	21				
—	—	—	—	—	—	10	10	—	—	—	—	—	—	—	—				
—	—	52	33	8	8	2 753	1 731	7	7	17	10	9	2	19	19				
228	179	3 049	2 814	945	789	230 645	171 421	336	244	2 881	2 106	433	287	1 151	963				
183	138	2 079	1 921	664	555	128 708	99 646	240	188	2 024	1 513	242	197	846	725				
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
5	5	6	6	9	9	762	602	—	—	—	—	—	—	—	—				
34	34	775	752	144	136	52 416	49 377	38	38	488	425	61	55	136	136				
—	—	72	70	13	9	13 766	8 372	36	36	111	71	—	—	25	12				
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
6	2	117	65	115	80	34 785	13 307	22	8	258	97	130	35	144	90				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, nondurable goods—Con.				Manufacturing, durable goods			
	Leather and leather products				Lumber and wood products, except furniture			
	Leather tanning and finishing	Footwear, except rubber and plastic	Leather products, except footwear	Total	Logging	Sawmills, planing mills, and millwork	Wood buildings and mobile homes	Miscellaneous wood products
	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	424	32	2 730	552	744	137	269 907	41 823
Private household occupations	—	—	—	—	—	—	—	—
Protective service occupations	121	6	448	14	62	14	63 409	4 566
Supervisors, protective service occupations	—	—	—	—	—	—	3 070	146
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	365	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—
Supervisors, guards	—	—	—	—	—	—	2 705	146
Firefighting and fire prevention occupations	—	—	—	—	—	—	3 169	135
Fire inspection and fire prevention occupations	—	—	—	—	—	—	1 423	77
Freightlifting occupations	—	—	—	—	—	—	1 746	58
Police and detectives	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—
Guards	121	6	448	14	62	14	57 170	4 285
Crossing guards	—	—	—	—	—	—	73	2
Guards and police, except public service	121	6	448	14	62	14	56 987	4 269
Protective service occupations, n.e.c.	—	—	—	—	—	—	110	14
Food preparation and service occupations	303	26	2 282	538	682	123	206 498	37 257
Food preparation and service occupations	26	10	160	5	34	13	10 853	7 353
Supervisors, food preparation and service occupations	—	—	—	—	8	3	384	276
Bartenders	—	—	—	—	—	—	115	30
Waiters and waitresses	—	—	—	—	12	3	1 281	1 080
Cooks, except short order	15	10	73	73	—	—	3 562	2 228
Short-order cooks	—	—	—	—	—	—	113	55
Food counter, fountain and related occupations	11	—	5	5	—	—	353	216
Kitchen workers, fountain and related occupations	—	—	—	—	—	—	555	393
Kitchen workers, food preparation	—	—	—	—	7	—	1 046	823
Waiters' and waitresses' assistants	—	—	—	—	7	7	3 244	2 302
Miscellaneous food preparation occupations	—	—	—	—	—	—	2 194	1 481
Health service occupations	3	—	52	29	7	7	2 194	1 481
Dental assistants	—	—	14	7	—	—	121	91
Health aides, except nursing	—	—	16	—	—	—	300	112
Nursing aides, orderlies, and attendants	—	—	22	22	7	7	1 773	1 278
Cleaning and building service occupations, except household	274	16	1 908	244	623	85	189 510	26 759
Supervisors, cleaning and building service workers	—	—	—	—	6	—	3 268	226
Maids and housemen	17	3	114	61	45	7	10 954	2 994
Janitors and cleaners	247	13	1 726	175	565	78	174 182	23 414
Elevator operators	10	—	41	8	7	—	1 027	111
Pest control occupations	—	—	6	—	—	—	79	14
Personal service occupations	—	—	162	112	18	18	3 941	1 644
Supervisors, personal service occupations	—	—	8	8	—	—	224	26
Barbers	—	—	11	11	—	—	99	33
Hairdressers and cosmetologists	—	—	2	2	—	—	196	133
Attendants, amusement and recreation facilities	—	—	13	5	5	5	575	197
Guides	—	—	—	—	—	—	444	138
Ushers	—	—	—	—	—	—	222	42
Public transportation attendants	—	—	—	—	—	—	31	6
Baggage porters and bellhops	—	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—
Child care workers, except private household	—	—	12	12	—	—	298	151
Personal service occupations, n.e.c.	—	—	116	82	13	13	1 852	938
Farming, forestry, and fishing occupations	28	—	43	12	15	15	95 160	2 941
Farm operators and managers	—	—	—	—	—	—	—	—
Farm occupations, except managerial	8	—	—	—	—	—	571	420
Related agricultural occupations	2	—	28	6	7	7	4 037	639
Supervisors, related agricultural occupations	—	—	—	—	—	—	124	49
Groundskeepers and gardeners, except farm	2	—	28	6	7	7	3 708	547
Animal caretakers, except farm	—	—	—	—	—	—	161	43
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	44	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																
Manufacturing, nondurable goods—Con.																
Manufacturing, durable goods																
Lumber and wood products, except furniture																
Sawmills, planing mills, and millwork																
Wood buildings and mobile homes																
Miscellaneous wood products																
Leather and leather products																
Footwear, except rubber and plastic																
Leather products, except footwear																
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con.										Manufacturing, durable goods									
	Leather and leather products					Total					Lumber and wood products, except furniture					Miscellaneous wood products				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Logging	Total	Female	Sawmills, planing mills, and millwork	Total	Female	Wood buildings and mobile homes	Total	Female	Miscellaneous wood products
Leather tanning and finishing																				
Total	16	16	23	8	298	59	58 916	1 360	38	—	—	—	—	443	3	—	8	120	—	—
Plasterers	—	—	—	—	1 204	31	3 238	656	—	—	—	—	—	11	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	4 851	605	228	46	—	—	—	—	—	38	—	—	—	—	—	—
Concrete and terrazzo finishers	—	—	—	—	930	6	5 888	206	—	—	—	—	—	5	—	—	—	—	—	—
Glaziers	—	—	—	—	16 499	304	800	164	—	—	—	—	—	42	6	—	—	—	—	—
Insulation workers	—	—	—	—	5 950	312	3 345	282	—	—	—	—	—	103	8	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	—	—	—	—	444	31	1 772	10	—	—	—	—	—	42	—	—	—	—	—	—
Roofers	—	—	—	—	1 674	83	436	88	—	—	—	—	—	26	—	—	—	—	—	—
Sheetmetal duct installers	—	—	—	—	419	70	255 816	75 996	—	—	—	—	—	—	—	—	—	—	—	—
Structural metal workers	—	—	—	—	1 874 492	255 816	778 218	156 996	—	—	—	—	—	38 205	2 008	—	6 513	13 381	—	—
Drillers, earth	—	—	—	—	778 218	156 996	1 874 492	255 816	—	—	—	—	—	22 630	840	—	4 581	7 976	—	—
Construction trades, n.e.c.	—	—	—	—	172 276	2 875	20 669	16 130	—	—	—	—	—	4 477	192	—	536	1 413	—	—
Drillers	—	—	—	—	20 669	16 130	377 386	215	—	—	—	—	—	138	13	—	19	131	—	—
Supervisors, extractive occupations	—	—	—	—	10 061	273	10 061	273	—	—	—	—	—	15	15	—	27	22	—	—
Drillers, oil well	—	—	—	—	3	16 520	832	3	—	—	—	—	—	49	9	—	86	891	—	—
Explosives workers	—	—	—	—	6	15 311	506	6	—	—	—	—	—	237	21	—	7	51	—	—
Mining machine operators	—	—	—	—	14	15 311	506	14	—	—	—	—	—	21	2	—	—	206	—	—
Mining occupations, n.e.c.	—	—	—	—	2	18 612	1 424	2	—	—	—	—	—	117	25	—	65	33	—	—
Precision production occupations	—	—	—	—	31	7 717	7 717	31	—	—	—	—	—	1	—	—	10	10	—	—
Supervisors, production occupations	—	—	—	—	4 847	1 903	4 847	1 903	—	—	—	—	—	93	7	—	332	25	—	—
Precision metalworking occupations	—	—	—	—	64 306	3 733	64 306	3 733	—	—	—	—	—	—	—	—	—	15	—	—
Tool and die makers	—	—	—	—	1 794	498	1 794	498	—	—	—	—	—	—	—	—	—	5	—	—
Precision assemblers, metal	—	—	—	—	67 229	10 624	67 229	10 624	—	—	—	—	—	10 126	879	—	1 759	3 514	—	—
Machinists	—	—	—	—	3 746	66	45 517	3 789	—	—	—	—	—	79	4	—	442	131	—	—
Boilermakers	—	—	—	—	15 171	6 416	15 171	6 416	—	—	—	—	—	9 099	671	—	1 701	2 237	—	—
Precision grinders, files, and tool sharpeners	—	—	—	—	2 795	353	2 795	353	—	—	—	—	—	877	12	—	54	564	—	—
Patternmakers and model makers, metal	—	—	—	—	25 744	8 304	25 744	8 304	—	—	—	—	—	216	58	—	53	582	—	—
Patternmakers and model makers, wood	—	—	—	—	3 397	2 790	3 397	2 790	—	—	—	—	—	33	22	—	14	100	—	—
Lay-out workers	—	—	—	—	19	85	19	85	—	—	—	—	—	28	34	—	39	13	—	—
Precious stones and metals workers (jewelers)	—	—	—	—	6	4 323	6	4 323	—	—	—	—	—	146	34	—	13	13	—	—
Engravers, metal	—	—	—	—	21	241	21	241	—	—	—	—	—	5	2	—	—	14	—	—
Sheet metal workers	—	—	—	—	72	282	72	282	—	—	—	—	—	4	2	—	—	12	—	—
Miscellaneous precision metal workers	—	—	—	—	12	1 370	12	1 370	—	—	—	—	—	—	—	—	—	17	—	—
Precision woodworking occupations	—	—	—	—	9	186 472	9	186 472	—	—	—	—	—	—	—	—	—	91	—	—
Patternmakers and model makers, wood	—	—	—	—	30 525	4 240	30 525	4 240	—	—	—	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	—	—	—	—	6 016	895	6 016	895	—	—	—	—	—	5	—	—	—	2	—	—
Furniture and wood finishers	—	—	—	—	13 842	5 848	13 842	5 848	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	—	—	—	—	3 471	877	3 471	877	—	—	—	—	—	—	—	—	—	—	—	—
Furniture and wood products	—	—	—	—	257	138	257	138	—	—	—	—	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	—	—	—	—	99 869	76 775	99 869	76 775	—	—	—	—	—	3	—	—	—	—	—	—
Dressmakers	—	—	—	—	32 492	5 868	32 492	5 868	—	—	—	—	—	114	16	—	35	89	—	—
Tailors	—	—	—	—	3 443	653	3 443	653	—	—	—	—	—	52	15	—	—	2	—	—
Upholsterers	—	—	—	—	2 075	207	2 075	207	—	—	—	—	—	38	13	—	—	2	—	—
Shoe repairers	—	—	—	—	899	108	899	108	—	—	—	—	—	14	2	—	—	—	—	—
Apparel and fabric patternmakers	—	—	—	—	16	23 223	16	23 223	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	34	21 221	34	21 221	—	—	—	—	—	—	—	—	—	—	—	—
Precision workers, assorted materials	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Hand molders and shapers, except jewelers	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Optical goods workers	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Bookbinders	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Precision food production occupations	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Butchers and meat cutters	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Bakers	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Food batchmakers	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Food batchmakers, testers, and related workers	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and graders	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, testers, and graders	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	5	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States		Manufacturing, nondurable goods—Con.										Manufacturing, durable goods									
		Leather and leather products					Total					Lumber and wood products, except furniture					Sawmills, planing mills, and millwork				
		Leather tanning and finishing		Footwear, except rubber and plastic		Leather products, except footwear		Total		Female		Total		Female		Total		Female		Total	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.																					
Precision production occupations—Con.																					
Plant and system maintenance workers	30	76	16	12	—	30 009	1 482	109	—	—	—	549	8	29	—	247	6	—	—	—	—
Water plant operators	2	—	—	—	—	1 946	39	8	—	—	—	6	—	—	—	4	—	—	—	—	—
Stationary engineers	26	59	11	6	—	24 524	1 189	17	—	—	—	162	—	—	—	162	—	—	—	—	—
Miscellaneous plant and system operators	—	10	5	6	—	3 175	219	13	—	—	—	346	8	26	—	192	6	—	—	—	—
Operators, fabricators, and laborers	12 250	2 267	112 793	81 503	26 465	5 611 479	1 611 352	44 142	1 541	—	—	224 000	28 726	21 457	2 925	70 610	17 698	—	—	—	—
Metal operators, assemblers, and inspectors	8 383	1 718	100 940	74 473	23 111	4 453 389	1 424 477	10 807	767	—	—	135 493	13 094	14 797	2 410	51 889	14 605	—	—	—	—
Metalworking and plastic working machine operators	6 779	1 273	88 304	65 047	17 021	2 318 436	571 315	8 887	455	—	—	104 532	13 373	14 792	1 366	37 683	8 700	—	—	—	—
Lathe and turning machine set-up operators	118	20	88 792	390	328	649 429	110 605	285	24	—	—	5 704	1 370	209	37	3 348	1 131	—	—	—	—
Lathe and turning machine operators	5	—	57	10	2	32 218	3 378	76	8	—	—	32	—	—	—	21	—	—	—	—	—
Milling and grinding machine operators	—	—	—	—	—	101 651	8 167	—	—	—	—	1 096	89	—	—	734	94	—	—	—	—
Punching and stamping press machine operators	24	6	195	175	2	18 227	1 587	19	15	—	—	71	—	8	—	29	5	—	—	—	—
Drilling machine operators	—	—	—	—	—	135 996	41 722	—	—	—	—	280	62	55	14	223	100	—	—	—	—
Drilling and boring machine operators	—	—	—	—	—	17 107	1 625	—	—	—	—	29	6	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	36 517	11 382	3	3	—	—	275	76	8	5	180	40	—	—	—	—
Facing machine operators	78	12	444	167	130	41 295 626	38 879	146	11	—	—	3 826	1 128	96	18	2 037	867	—	—	—	—
Numerical control machine operators	—	—	—	—	—	12 803	800	26	—	—	—	27	—	—	—	43	7	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	9	2	28	9	20	2 367	137	—	—	—	—	—	—	—	—	2	2	—	—	—	—
Fabricating machine operators, n.e.c.	6	—	87	20	20	26 917	2 928	—	—	—	—	68	3	7	—	79	16	—	—	—	—
Metal and plastic processing machine operators	234	28	1 148	518	243	26 104	8 687	18	7	—	—	40	17	149	6	89	31	—	—	—	—
Metal casting and casting machine operators	200	28	1 123	494	309	139 902	23 065	80	4	—	—	1 871	273	429	125	859	200	—	—	—	—
Metal plating machine operators	34	—	9	36	241	72 033	16 385	45	4	—	—	1 756	285	395	125	741	188	—	—	—	—
Heat treating equipment operators	—	—	20	15	—	34 192	4 431	26	—	—	—	37	—	17	—	91	12	—	—	—	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	22 198	1 131	—	—	—	—	46	—	—	—	13	—	—	—	—	—
Woodworking machine operators	—	—	16	—	12	11 479	1 118	9	—	—	—	32	8	17	—	14	—	—	—	—	—
Wood knife, routing, and planing machine operators	19	8	327	208	228	119 265	16 225	4 179	104	—	—	53 941	4 540	1 971	247	16 353	2 706	—	—	—	—
Sawing machine operators	—	—	12	—	—	6 177	683	105	—	—	—	3 634	288	88	—	897	87	—	—	—	—
Shaping and joining machine operators	5	—	104	76	91	8 687	8 998	3 791	79	—	—	41 328	2 687	1 326	178	6 803	1 047	—	—	—	—
Nailing and tacking machine operators	—	—	54	21	7	3 116	1 947	13	7	—	—	1 191	145	101	—	772	480	—	—	—	—
Miscellaneous woodworking machine operators	14	8	92	85	53	3 226	996	8	—	—	—	7 126	1 269	378	29	6 554	886	—	—	—	—
Printing machine operators	26	—	142	108	70	20 361	7 599	10	—	—	—	355	73	18	—	150	34	—	—	—	—
Printing machine operators	26	—	138	108	68	14 894	5 460	35	—	—	—	212	58	18	6	112	24	—	—	—	—
Photoengraving and lithographers	—	—	—	—	—	1 350	375	—	—	—	—	4	—	—	—	5	—	—	—	—	—
Typesetters and compositors	—	—	—	—	—	2 260	1 309	—	—	—	—	128	15	—	—	5	—	—	—	—	—
Miscellaneous printing machine operators	—	—	—	—	—	8 411	455	10	—	—	—	989	289	—	—	257	290	—	—	—	—
Textile, apparel, and furnishings machine operators	2 424	599	69 536	52 977	9 401	55 663	42 366	76	15	—	—	11	—	271	222	58	67	—	—	—	—
Knitting, looping, taping, and weaving machine operators	—	—	17	—	15	2 183	1 173	—	—	—	—	—	—	—	—	90	—	—	—	—	—
Textile cutting machine operators	15	10	12	12	6	1 170	688	—	—	—	—	13	13	14	9	7	7	—	—	—	—
Textile sewing machine operators	387	99	34	18	13	354	89	—	—	—	—	8	—	—	—	5	—	—	—	—	—
Shoe machine operators	254	707	5 736	5 231	8 889	41 740	36 319	29	8	—	—	307	182	215	199	254	142	—	—	—	—
Pressing machine operators	234	205	63 406	47 474	288	672	315	2	—	—	—	61	2	4	—	21	14	—	—	—	—
Laundry and dry cleaning machine operators	39	20	89	83	28	497	202	10	—	—	—	47	2	—	—	—	—	—	—	—	—
Miscellaneous textile machine operators	1 489	6	202	125	236	8 173	3 186	3	—	—	—	159	22	—	—	33	23	—	—	—	—
Machine operators, assorted materials	3 952	188	16 252	10 766	13 366	8 000	3 076 692	4 239	301	—	—	41 662	6 811	4 445	14	137	32	—	—	—	—
Cementing and gluing machine operators	16	16	797	775	730	13 818	6 938	46	23	—	—	1 495	392	44	9	285	4 308	—	—	—	—
Extruding and forming machine operators	34	—	274	241	55	11 916	7 040	15	7	—	—	233	104	13	6	170	112	—	—	—	—
Mixing and blending machine operators	—	—	47	20	32	9 470	1 405	3	—	—	—	105	25	25	—	43	82	—	—	—	—
Separating, filtering, and clarifying machine operators	573	43	111	110	110	20 036	2 829	37	—	—	—	367	16	2	—	181	10	—	—	—	—
Compressing and compacting machine operators	62	19	13	9	2	6 229	1 495	3	—	—	—	163	17	1	—	158	29	—	—	—	—
Painting and paint spraying machine operators	23	10	132	117	49	7 068	2 505	29	14	—	—	627	67	1	—	102	29	—	—	—	—
Roasting and baking machine operators, food	40	13	135	116	205	88 010	17 934	35	5	—	—	1 455	39	286	69	1 290	504	—	—	—	—
Washing, cleaning, and pickling machine operators	27	—	13	—	—	3 305	590	—	—	—	—	55	—	8	—	13	3	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con.										Manufacturing, durable goods									
	Leather and leather products					Total					Lumber and wood products, except furniture					Sawmills, planing mills, and millwork				
	Leather tanning and finishing		Footwear, except rubber and plastic		Leather products, except footwear		Total		Female	Total	Logging		Wood buildings and mobile homes		Total	Miscellaneous wood products		Total	Female	Total
	Total	Female	Total	Female	Total	Female	Total	Female			Total	Female	Total	Female		Total	Female			
Employed persons 16 years and over—Con.																				
Operators, fabricators, and laborers—Con.																				
Machine operators, assemblers, and inspectors—Con.																				
Machine operators and tenders, except precision—Con.																				
Machine operators, assorted materials—Con.																				
Folding machine operators	15	—	485	422	163	149	4 550	1 932	—	—	—	—	—	—	—	—	—	—	—	—
Fur, lace, knit, and open operators, except food	87	11	56	34	9	—	82 750	4 660	178	11	3 236	175	60	—	—	—	—	—	—	—
Crushing and grinding machine operators	8	—	61	32	4	—	16 316	1 597	39	—	—	—	—	—	—	—	—	—	—	—
Slicing and cutting machine operators	634	146	4 354	2 264	3 103	1 162	81 263	15 789	599	30	3 859	699	169	20	2 094	411	—	—	—	—
Motion picture projectionists	—	—	—	—	—	—	10 085	4 937	—	—	—	—	—	—	—	—	—	—	—	—
Photographic process machine operators	—	—	64	53	48	39	295 733	96 974	2	2	8 200	1 422	351	4	3 090	808	—	—	—	—
Miscellaneous machine operators, n.e.c.	988	176	2 196	1 461	2 404	1 447	656 308	195 983	2 281	139	21 477	3 449	561	54	8 013	2 256	—	—	—	—
Machine operators, not specified	1 445	203	7 396	5 224	6 400	4 221	662 727	647 484	—	—	—	—	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	1 027	245	7 307	5 125	6 753	4 622	419 807	32 863	811	99	17 192	4 384	872	6 551	11 233	4 435	—	—	—	—
Welders and cutters	25	—	90	43	135	135	27 465	22 115	460	7	2 283	75	1 288	35	58	98	—	—	—	—
Solders and brazers	—	—	7	—	41	29	1 177 574	579 681	196	64	14 429	4 256	834	5	234	4 045	—	—	—	—
Assemblers	597	200	6 854	4 823	6 110	4 266	2 361	3 593	114	7	30	3	—	—	—	—	—	—	—	—
Hand cutting and trimming occupations	101	23	88	53	140	99	12 186	4 142	35	21	49	3	—	—	—	—	—	—	—	—
Hand molding, casting, and forming occupations	—	—	21	10	38	20	13 790	294	—	—	—	—	—	—	—	—	—	—	—	—
Hand painting, coating and decorating occupations	195	10	76	52	152	86	4 142	294	—	—	—	—	—	—	—	—	—	—	—	—
Hand engraving and printing occupations	14	—	—	—	8	2	1 416	443	—	—	—	—	—	—	—	—	—	—	—	—
Hand grinding and polishing occupations	16	—	—	—	—	—	7 968	3 368	6	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	79	12	171	144	129	86	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	577	200	5 329	4 301	1 741	1 468	472 226	205 678	1 109	213	13 769	3 337	754	172	2 973	1 470	—	—	—	—
Production inspectors, checkers, and examiners	214	92	4 947	4 061	1 434	1 295	402 793	181 368	304	60	3 600	1 156	720	149	1 486	805	—	—	—	—
Production testers	—	—	—	—	—	—	46 641	15 859	—	—	—	—	—	—	—	—	—	—	—	—
Production samplers and weighers	5	—	71	44	89	38	2 048	661	—	—	—	—	—	—	—	—	—	—	—	—
Graders and sorters, except agricultural	358	103	293	185	201	133	20 744	7 790	805	153	10 090	2 171	27	16	1 429	665	—	—	—	—
Transportation and material moving occupations																				
Motor vehicle operators	681	42	2 107	731	1 132	361	521 162	27 711	27 386	327	36 338	1 034	3 208	125	7 675	337	—	—	—	—
Supervisors, motor vehicle operators	178	—	738	49	349	18	194 136	5 171	14 928	174	15 256	180	2 117	101	3 305	43	—	—	—	—
Truck drivers, heavy	166	—	6	—	—	—	362	46	21	—	32	23	—	—	—	—	—	—	—	—
Truck drivers, light	—	—	583	19	221	9	157 363	2 875	14 619	161	13 682	147	1 646	40	2 730	28	—	—	—	—
Driver-sales workers	6	—	103	24	106	9	25 380	1 089	198	8	1 260	10	380	21	432	15	—	—	—	—
Bus drivers	—	—	12	—	10	—	1 988	284	14	—	70	—	—	—	—	—	—	—	—	—
Taxicab drivers and chauffeurs	—	—	34	6	12	—	8 085	141	33	5	203	—	—	—	—	—	—	—	—	—
Parking lot attendants	—	—	—	—	—	—	222	52	19	—	—	—	—	—	—	—	—	—	—	—
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	128	9	24	—	—	—	—	—	—	—	—	—	—	—
Rail transportation occupations	5	—	—	—	—	—	6 590	139	40	—	62	—	7	—	54	—	—	—	—	—
Railroad conductors and yardmasters	—	—	—	—	—	—	744	22	8	—	8	—	—	—	—	—	—	—	—	—
Locomotive operating occupations	5	—	—	—	—	—	2 643	71	2	—	11	—	—	—	13	—	—	—	—	—
Railroad brake, signal, and switch operators	—	—	—	—	—	—	3 100	44	30	—	43	—	—	—	41	—	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	103	2	—	—	—	—	—	—	—	—	—	—	—	—
Water transportation occupations	—	—	7	7	—	—	1 951	70	—	—	124	—	—	—	—	—	—	—	—	—
Ship captains and mates, except fishing boats	—	—	—	—	—	—	978	30	30	—	113	—	—	—	—	—	—	—	—	—
Salors and deckhands	—	—	7	7	—	—	653	24	6	—	6	—	—	—	6	—	—	—	—	—
Marine engineers	—	—	—	—	—	—	238	7	—	—	—	—	—	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	42	9	—	—	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators	498	42	1 362	675	783	343	318 485	22 331	12 388	153	20 896	854	1 084	24	4 297	294	—	—	—	—
Supervisors, material moving equipment operators	8	—	15	—	6	—	5 550	341	—	—	39	7	42	2	221	4	—	—	—	—
Operating engineers	—	—	—	—	—	—	4 376	98	659	—	472	—	6	—	18	—	—	—	—	—
Lantern operators	—	—	—	—	—	—	89	—	—	—	6	—	—	—	8	—	—	—	—	—
Hoist and winch operators	14	—	—	—	—	—	3 774	229	950	8	447	11	3	—	2	—	—	—	—	—
Crane and lower operators	8	—	—	—	5	—	70 370	1 912	271	—	716	35	23	—	236	5	—	—	—	—
Excavating and loading machine operators	—	—	7	7	3	—	3 913	143	546	10	255	6	—	2	23	—	—	—	—	—
Grader, dozer, and scraper operators	—	—	—	—	—	—	2 821	49	985	—	550	—	—	—	53	—	—	—	—	—
Industrial truck and tractor equipment operators	326	—	262	9	153	20	157 019	8 013	7 759	96	15 488	444	743	19	2 862	161	—	—	—	—
Miscellaneous material moving equipment operators	142	28	1 078	659	610	323	70 573	11 546	1 238	39	2 973	345	256	1	874	122	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Manufacturing, nondurable goods—Con.					Manufacturing, durable goods										
Leather and leather products					Lumber and wood products, except furniture										
Leather tanning and finishing		Footwear, except rubber and plastic		Leather products, except footwear		Total		Logging		Sawmills, planing mills, and millwork		Wood buildings and mobile homes		Miscellaneous wood products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
3 186	507	9 746	6 299	4 626	2 993	636 928	159 164	5 949	447	52 169	6 598	3 452	390	11 046	2 756
—	—	15	—	5	—	1 126	71	40	—	73	—	7	—	21	—
10	—	12	—	—	—	2 745	154	24	—	71	6	—	—	19	—
—	—	—	—	—	—	7 297	596	6	—	410	46	153	16	211	10
—	—	—	—	—	—	7 234	591	—	—	387	46	153	16	205	10
—	—	—	—	—	—	63	5	2	—	23	—	—	—	6	—
6	—	19	—	—	—	8 789	541	148	—	—	—	—	—	—	—
117	2	104	30	19	—	36 128	4 025	47	4	437	116	465	32	227	13
155	19	1 589	772	229	—	21 986	2 986	3 675	262	794	2 632	51	2	341	80
1	—	—	—	6	—	131 502	139	—	—	24 931	2 632	466	31	2 347	371
—	—	—	—	—	—	460	6	—	—	13	—	—	—	—	—
—	—	—	—	—	—	223	6	—	—	2	—	10	—	14	—
—	—	486	279	143	108	18 703	4 123	7	—	388	90	37	—	7	—
56	14	506	400	137	106	41 338	11 793	299	78	9 262	1 517	106	4	126	26
92	5	597	93	148	15	70 778	5 925	3 369	184	15 266	1 025	308	27	1 632	150
—	—	—	—	—	—	1 567	208	14	—	143	8	11	6	11	—
69	11	308	249	27	20	16 008	3 215	46	—	281	64	7	—	86	12
76	35	3 680	2 948	2 049	1 622	123 438	70 601	108	50	2 186	774	88	42	1 649	1 062
2 753	440	3 996	2 294	1 867	977	308 328	57 767	1 839	131	22 843	2 948	2 204	261	6 134	1 208
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Handlers, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.															
Helpers, mechanics and repairers															
Helpers, construction and extractive occupations															
Helpers, construction trades															
Helpers, surveyor															
Helpers, extractive occupations															
Construction laborers															
Production helpers															
Freight, stock, and material handlers															
Garbage collectors															
Stewards															
Stock handlers and baggage															
Machine feeders and offbearers															
Freight, stock, and material handlers, n.e.c.															
Garage and service station related occupations															
Vehicle washers and equipment cleaners															
Truck packers and packagers															
Laborers, except construction															

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Employed persons 16 years and over

Managerial and professional specialty occupations	44 758	7 861	4 326	22 580	23 588	2 209	7 001	5 222	20 328	2 714	51 157	5 057
Executive, administrative, and managerial occupations	37 574	6 368	2 446	14 423	20 220	2 032	4 863	2 830	14 854	2 009	31 531	3 121
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	7	350	139	605	907	121	149	79	549	57	1 401	140
Financial managers	1 311	320	63	469	430	100	152	81	462	64	963	114
Personnel and labor relations managers	382	100	14	100	140	7	33	19	159	2	369	27
Purchasing managers	3 599	551	144	1 334	1 651	55	545	260	1 886	141	2 567	90
Managers, marketing, advertising, and public relations	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—
Managers, transportation and mail superintendents	23	12	—	—	—	—	—	—	—	—	—	—
Federal directors	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	2	—	—	—	—	—	—	—	—	—	—	—
Funeral directors	24 729	3 151	958	8 449	14 372	1 078	3 312	1 887	9 039	6	15 854	1 007
Managers and administrators, n.e.c.	21 898	2 861	797	7 664	13 460	989	2 928	1 575	8 228	903	15 367	977
Self-employed	2 831	290	161	785	912	89	384	312	811	156	487	30
Management related occupations	6 070	1 968	1 200	3 414	2 694	666	670	504	2 726	842	10 310	1 731
Accountants and auditors	2 374	877	648	1 775	1 523	428	273	258	1 331	427	4 646	857
Underwriters	—	—	—	—	—	—	—	—	—	—	—	—
Other financial officers	201	98	39	151	101	21	33	20	82	20	638	103
Management analysts	139	26	10	63	42	5	8	3	83	23	267	20
Personnel, training, and labor relations specialists	1 168	310	176	678	493	95	157	85	493	156	2 666	332
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	—	—	—	—	—	—	—	—	—	—	—	—
Construction inspectors	2 102	627	225	709	472	107	173	133	690	210	1 735	380
Inspectors and compliance officers, except construction	13	11	5	5	6	—	3	—	—	—	15	—
Management related occupations, n.e.c.	54	6	11	15	10	10	5	—	—	—	26	34

Professional specialty occupations

Engineers, architects, and surveyors	7 184	1 493	1 880	8 157	3 368	177	2 138	2 392	5 474	705	19 626	1 936
Architects	3 461	234	214	4 279	1 990	5	785	629	3 315	128	13 441	515
Engineers	89	24	6	14	11	8	8	27	5	5	27	—
Metallurgical and materials engineers	3 372	210	208	4 265	1 979	5	771	629	3 289	128	13 391	515
Mining engineers	17	5	—	4	35	—	5	13	53	—	13	—
Petroleum engineers	13	—	5	96	31	—	121	125	141	10	4 819	214
Chemical engineers	—	—	—	—	31	—	4	—	11	—	20	—
Nuclear engineers	—	—	10	—	12	—	7	22	104	6	187	8
Civil engineers	—	—	—	—	353	—	14	21	106	5	1 024	19
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	148	10	10	314	116	—	42	30	180	—	883	—
Mechanical engineers	1 778	165	116	1 219	387	—	212	177	966	85	3 732	232
Marine engineers and naval architects	452	8	5	691	383	—	117	103	453	—	1 596	8
Engineers, n.e.c.	905	22	62	1 763	582	—	249	144	1 259	22	1 092	34
Surveyors and mapping scientists	—	—	—	—	—	—	6	—	21	—	23	—

Mathematical and computer scientists

Computer systems analysts and scientists	312	48	77	470	164	20	41	53	286	48	1 815	178
Operations and systems researchers and analysts	161	21	26	245	126	14	17	30	157	38	69	991
Actuaries	121	14	33	152	38	6	24	17	98	23	635	51
Statisticians	25	13	18	67	—	—	—	6	31	7	178	58
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

		Manufacturing, durable goods—Con.									
		Furniture and fixtures					Stone, clay, glass, and concrete products				
		Glass and glass products		Cement, concrete, gypsum, and plaster products		Structural clay products		Pottery and related products		Miscellaneous nonmetallic mineral and stone products	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Managerial and professional specialty occupations—Con.											
Professional specialty occupations—Con.											
Natural scientists	67	444	52	727	44	517	355	163	83	409	32
Physicists and astronomers	—	67	2	—	—	—	—	—	—	2	—
Chemists, except biochemists	42	336	46	647	39	485	343	138	83	351	25
Atmospheric and space scientists	8	—	—	5	5	—	—	—	—	7	—
Geologists and geodesists	—	—	—	67	6	26	6	25	—	33	62
Physical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	13	7
Agricultural and food scientists	6	8	4	8	—	6	6	—	—	3	—
Biological and life scientists	11	23	—	—	—	—	—	—	—	—	—
Forestry and conservation scientists	—	—	—	—	—	—	—	—	—	—	—
Medical scientists	—	10	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	6	16	9	—	—	—	—	4	—	24	—
Physicians	—	7	—	—	—	—	—	4	—	24	—
Dentists	—	—	—	—	—	—	—	—	—	—	—
Veterinarians	—	—	—	—	—	—	—	—	—	—	—
Optometrists	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	6	9	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	137	394	386	16	16	28	26	25	25	80	80
Registered nurses	130	364	358	16	16	26	26	25	25	74	74
Physicists	5	8	6	—	—	—	—	—	—	6	6
Dietitians	2	7	7	—	—	—	—	—	—	—	—
Therapists	—	9	9	—	—	—	—	—	—	—	—
Physicians' assistants	—	—	—	—	—	—	—	—	—	—	—
Teachers, postsecondary	42	16	8	15	2	13	13	73	55	7	—
Teachers, except postsecondary	81	91	28	—	—	118	118	—	—	86	—
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	6	—	—	—	—	98	98	29	25	—	—
Teachers, special education	75	91	28	—	—	20	20	44	30	22	22
Teachers, n.e.c.	5	5	—	10	10	20	18	—	—	6	8
Counselors, educational and vocational	4	17	6	10	10	20	18	—	—	6	6
Librarians, archivists, and curators	—	—	—	—	—	—	—	—	—	—	—
Librarians	4	—	—	—	—	—	—	—	—	—	—
Archivists and curators	—	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	220	162	54	103	33	39	—	10	8	230	32
Economists	211	159	54	97	27	39	—	8	8	222	32
Psychologists	9	3	—	6	6	—	—	—	—	6	—
Sociologists	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	—	—	2	—	—	—
Urban planners	—	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	34	9	7	—	—	12	6	4	4	2	2
Social workers	11	9	7	—	—	6	6	—	—	2	2
Recreation workers	17	—	—	—	—	—	—	—	—	—	—
Clergy	2	—	—	—	—	—	—	—	—	—	—
Religious workers, n.e.c.	4	—	—	—	—	—	—	—	—	—	—
Lawyers and judges	20	130	13	72	12	6	—	—	—	57	—
Lawyers	20	130	13	72	12	6	—	—	—	57	—
Judges	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	2 795	2 124	1 026	271	35	559	356	1 435	990	962	313
Authors	13	8	—	—	—	13	6	12	6	30	28
Technical writers	29	32	11	—	—	204	126	1 090	770	345	122
Designers	2 136	965	430	104	8	—	—	—	—	—	—
Musicians and composers	18	7	—	—	—	—	—	—	—	—	—
Musicians and directors	4	26	17	—	—	—	—	10	—	8	—
Actors and directors	101	944	488	40	15	235	170	284	193	473	145
Painters, sculptors, craft-artists, and artist printmakers	45	5	5	6	—	16	—	—	—	11	—
Dancers	2	—	—	—	—	10	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	28	39	14	13	6	40	38	23	13	38	17
Editors and reporters	37	29	29	7	—	—	—	—	—	—	—
Public relations specialists	382	57	17	94	6	41	6	12	8	50	27
Announcers	—	—	—	—	—	—	—	—	—	—	—
Athletes	—	10	—	7	—	—	—	4	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, durable goods—Con.									
	Furniture and fixtures				Stone, clay, glass, and concrete products				Metal industries	
	Total	Female	Total	Female	Glass and glass products	Cement, concrete, gypsum, and plaster products	Structural clay products	Pottery and related products	Miscellaneous nonmetallic mineral and stone products	Blast furnaces, steelworks, rolling and finishing mills
Technical, sales, and administrative support occupations	71 881	39 193	30 255	17 055	27 027	13 048	8 233	5 160	26 054	94 577
Technicians and related support occupations	4 112	750	4 887	978	3 023	271	1 175	613	4 048	14 604
Health technologists and technicians	26	20	3	3	7	—	12	11	25	305
Clinical laboratory technologists and technicians	—	—	—	—	—	—	—	7	6	59
Dental hygienists	—	—	—	—	—	—	—	—	—	7
Health record technologists and technicians	—	—	—	—	—	—	9	—	—	—
Radiologic technicians	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	20	20	44	29	—	—	3	2	5	43
Health technologists and technicians, n.e.c.	6	—	35	8	—	—	—	2	14	196
Engineering and related technologists and technicians	2 912	418	2 549	560	1 495	94	775	450	2 196	10 291
Electrical and electronic technicians	160	28	337	6	120	8	21	9	126	1 015
Industrial engineering technicians	161	23	65	18	14	—	6	17	29	149
Mechanical engineering technicians	5	—	50	—	35	—	6	5	17	122
Engineering technicians, n.e.c.	472	73	1 512	487	355	34	553	303	1 383	5 549
Drafting occupations	2 099	294	566	49	971	52	187	116	626	3 422
Surveying and mapping technicians	15	—	19	—	—	—	2	—	15	34
Science technicians	137	25	631	169	1 135	75	200	48	547	1 135
Biological technicians	—	—	6	2	7	—	—	—	26	2
Chemical technicians	50	—	149	22	875	58	122	11	161	35
Science technicians, n.e.c.	87	25	476	145	253	17	78	37	360	486
Technicians, except health, engineering, and science	1 037	287	1 295	209	386	102	188	104	1 280	2 873
Aviation pilots and navigators	21	—	28	—	26	—	9	2	57	152
Air traffic controllers	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	19	5	12	—	42	—	—	—	5	50
Computer programmers	694	206	413	111	202	83	86	11	438	1 779
Tool programmers, numerical control	13	7	30	9	6	—	19	—	40	77
Legal assistants	365	69	722	89	106	13	74	91	728	39
Technicians, n.e.c.	14 459	2 560	3 784	944	5 614	339	1 842	994	4 445	806
Sales occupations	1 464	330	429	89	333	34	88	94	349	9 229
Supervisors and proprietors, sales occupations	1 223	285	379	81	241	34	61	56	292	581
Salaried	241	45	50	8	92	—	27	38	57	546
Self-employed	155	62	33	19	28	7	20	2	23	82
Sales representatives, finance and business services	—	—	14	6	24	—	—	—	6	—
Insurance sales occupations	21	2	—	—	—	—	—	—	—	33
Real estate sales occupations	—	—	19	13	4	—	20	2	17	—
Securities and financial services sales occupations	134	60	—	—	—	—	—	—	—	49
Advertising and related sales occupations	—	—	—	—	—	—	—	—	—	—
Sales occupations, other business services	12 459	1 975	3 156	736	5 169	283	1 702	781	3 927	8 266
Sales occupations, commodities, except retail	134	12	65	7	136	7	57	20	200	263
Sales engineers	12 325	1 913	3 091	729	5 033	276	1 645	761	3 727	8 003
Sales representatives, mining, manufacturing, and wholesale	359	238	158	100	81	15	32	108	130	295
Sales workers, retail and personal services	31	2	2	2	45	8	15	2	13	30
Sales workers, commodities	20	13	17	—	—	—	—	2	—	19
Sales counter clerks	186	146	89	80	9	—	10	89	57	52
Cashiers	116	73	20	12	19	7	7	17	54	18
Street and door-to-door sales workers	6	4	11	6	8	—	—	8	6	25
News vendors	—	—	—	—	—	—	—	—	—	—
Sales related occupations	22	5	8	—	3	—	—	9	16	5
Demonstrators, promoters and models, sales	6	—	—	—	—	—	—	2	10	5
Auctioneers	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	16	5	8	—	3	—	—	7	6	—
Administrative support occupations, including clerical	53 310	35 883	21 984	15 133	18 390	12 438	5 216	3 553	17 561	70 744
Supervisors, administrative support occupations	3 620	1 024	1 329	430	1 157	367	404	265	1 332	5 491
Supervisors, general office	1 211	545	406	236	557	255	123	122	565	2 028
Supervisors, computer equipment operators	62	38	65	2	19	7	7	80	277	32
Supervisors, financial records processing	690	355	351	120	249	81	68	67	235	1 228
Chief communications operators	31	—	—	—	13	13	—	—	—	—
Supervisors; distribution, scheduling, and adjusting clerks	1 626	86	507	72	319	11	206	69	452	1 928
Computer equipment operators	1 323	881	784	462	419	256	157	116	536	2 107
Computer operators	1 257	835	742	437	394	246	137	98	500	2 007
Peripheral equipment operators	66	46	42	25	25	10	—	23	36	100

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

Manufacturing, durable goods—Con.

	Manufacturing, durable goods—Con.									
	Furniture and fixtures				Stone, clay, glass, and concrete products				Miscellaneous nonmetallic mineral and stone products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.										
Administrative support occupations, including detail—Con.										
Secretaries, stenographers, and typists—										
Secretaries.....	11 716	11 547	5 815	5 793	4 673	4 584	1 397	1 373	908	902
Stenographers.....	10 543	10 413	5 302	5 285	4 389	4 306	1 274	1 250	793	787
Typists.....	54	54	59	59	23	23	19	19	11	11
Information clerks.....	1 119	1 080	454	449	261	255	104	104	104	104
Interviewers.....	116	1 209	442	392	377	334	150	150	85	84
Hotel clerks.....	21	95	55	48	36	28	44	44	1	1
Transportation ticket and reservation agents.....	1 025	13	16	8	—	—	—	—	—	—
Receptionists.....	84	1 025	317	295	294	280	101	101	72	72
Information clerks, n.e.c.....	3 074	2 294	54	41	47	26	5	5	12	12
Records processing occupations, except financial.....	66	1 569	63	1 052	65	367	294	128	207	154
Classified-ad clerks.....	48	27	3	—	6	—	10	5	—	—
Correspondence clerks.....	1 400	1 054	507	354	331	212	132	48	78	67
Order clerks.....	191	160	120	113	64	64	8	2	19	17
Personnel clerks, except payroll and timekeeping.....	1 345	1 006	840	511	242	79	74	51	107	67
Library clerks.....	24	11	36	32	22	12	3	3	3	3
File clerks.....	8 515	7 693	3 368	2 905	4 945	4 319	946	839	469	397
Financial records processing occupations.....	6 336	5 754	2 390	2 062	4 211	3 751	681	605	286	234
Bookkeepers, accounting, and auditing clerks.....	1 261	1 158	611	561	422	316	163	141	129	121
Payroll and timekeeping clerks.....	714	635	241	225	258	228	74	70	37	35
Billing clerks.....	173	97	103	49	44	14	17	12	17	7
Cost and rate clerks.....	61	49	23	18	10	10	11	11	—	—
Billing, posting, and calculating machine operators.....	144	108	56	43	17	17	—	—	—	—
Duplicating, mail, and other office machine operators.....	29	26	13	6	5	5	—	—	—	—
Duplicating machine operators.....	30	17	5	5	—	—	—	—	—	—
Mail preparing and paper handling machine operators.....	85	65	38	32	12	12	—	—	—	—
Office machine operators, n.e.c.....	364	307	147	140	100	70	19	17	37	37
Communications equipment operators.....	309	296	147	140	90	70	19	17	37	37
Telephone operators.....	48	11	—	—	10	—	—	—	—	—
Telegraphers.....	7	—	—	—	—	—	—	—	—	—
Communications equipment operators, n.e.c.....	496	216	341	144	233	78	47	9	50	34
Mail and message distributing occupations.....	—	—	—	—	—	—	—	—	—	—
Postal clerks, except mail carriers.....	340	186	240	112	160	54	47	9	44	28
Mail carriers, postal services.....	136	30	101	32	73	24	6	6	5	5
Mail clerks, except postal service.....	15 043	4 377	5 122	1 536	3 485	633	1 118	292	859	265
Material recording, scheduling, and distributing clerks.....	2 112	1 013	953	346	1 236	504	37	37	101	63
Dispatchers.....	7 859	1 228	2 143	349	547	80	546	47	419	43
Production coordinators.....	3 501	1 463	1 530	652	575	142	310	111	180	52
Traffic, shipping, and receiving clerks.....	307	128	152	51	472	103	32	9	47	15
Stock and inventory clerks.....	12	2	6	6	5	—	—	—	—	—
Weighers, measurers, and checkers.....	1 023	475	243	114	54	16	17	5	97	16
Samples.....	—	—	—	—	—	—	—	—	—	—
Expeditors.....	63	38	23	14	34	14	—	—	15	8
Material recording, scheduling, and distributing clerks, n.e.c.....	973	670	253	149	172	51	59	13	68	33
Adjusters and inspectors.....	772	568	210	113	140	31	59	13	68	33
Insurance adjusters, examiners, and investigators.....	201	102	39	32	—	—	—	—	—	—
Investigators and adjusters, except insurance.....	6 796	5 557	2 798	2 087	1 947	1 362	625	451	489	404
Equality clerks, social welfare.....	4 714	4 037	1 535	1 220	1 330	930	339	283	348	288
Bill and account collectors.....	—	—	—	—	—	—	—	—	—	—
Miscellaneous administrative support occupations.....	—	—	—	—	—	—	—	—	—	—
General office clerks.....	15	15	62	61	5	5	132	115	90	85
Bank tellers.....	1 143	1 143	313	313	79	50	75	26	90	18
Proofreaders.....	17	6	162	135	32	30	46	2	519	2
Paralegals.....	675	269	419	120	220	72	46	25	33	13
Teachers' aides.....	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, n.e.c.....	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Administrative support occupations, including detail—Con.

Secretaries, stenographers, and typists—

Secretaries.....

Stenographers.....

Typists.....

Information clerks.....

Interviewers.....

Hotel clerks.....

Transportation ticket and reservation agents.....

Receptionists.....

Information clerks, n.e.c.....

Records processing occupations, except financial.....

Classified-ad clerks.....

Correspondence clerks.....

Order clerks.....

Personnel clerks, except payroll and timekeeping.....

Library clerks.....

File clerks.....

Records clerks.....

Financial records processing occupations.....

Bookkeepers, accounting, and auditing clerks.....

Payroll and timekeeping clerks.....

Billing clerks.....

Cost and rate clerks.....

Billing, posting, and calculating machine operators.....

Duplicating, mail, and other office machine operators.....

Duplicating machine operators.....

Mail preparing and paper handling machine operators.....

Office machine operators, n.e.c.....

Communications equipment operators.....

Telephone operators.....

Telegraphers.....

Communications equipment operators, n.e.c.....

Mail and message distributing occupations.....

Postal clerks, except mail carriers.....

Mail carriers, postal services.....

Mail clerks, except postal service.....

Messengers.....

Material recording, scheduling, and distributing clerks.....

Dispatchers.....

Production coordinators.....

Traffic, shipping, and receiving clerks.....

Stock and inventory clerks.....

Meier readers.....

Weighers, measurers, and checkers.....

Samples.....

Expeditors.....

Material recording, scheduling, and distributing clerks, n.e.c.....

Adjusters and inspectors.....

Insurance adjusters, examiners, and investigators.....

Investigators and adjusters, except insurance.....

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of items, see appendix A.]

United States	Manufacturing, durable goods—Con.									
	Furniture and fixtures					Stone, clay, glass, and concrete products				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	9 796	1 689	5 948	898	3 840	307	1 521	240	1 035	139
Private household occupations	1 891	71	975	85	580	16	228	3	140	—
Protective service occupations	14	—	17	—	16	—	—	—	6	—
Supervisors, protective service occupations	—	—	9	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	14	—	8	—	16	—	—	—	6	—
Supervisors, guards	28	—	17	2	7	—	25	—	—	—
Firefighting and fire prevention occupations	21	—	4	2	—	—	—	—	9	—
Fire inspection and fire prevention occupations	7	—	13	—	7	—	25	—	—	—
Freightlifting occupations	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	1 849	71	891	83	557	16	203	3	134	—
Crossing guards	—	—	—	—	—	—	8	—	—	—
Guards and police, except public service	1 847	71	886	78	557	16	195	3	134	—
Protective service occupations, n.e.c.	2	—	5	—	—	—	—	—	—	—
Service occupations, except protective and household	7 905	1 618	5 023	813	3 260	291	1 293	237	895	139
Food preparation and service occupations	276	169	113	79	91	23	4	—	64	53
Supervisors, food preparation and service occupations	2	—	7	—	—	—	—	—	—	—
Barenders	66	47	26	13	7	—	—	—	11	11
Waiters and waitresses	119	72	36	36	59	16	4	—	21	11
Cooks, except short order	—	—	—	—	—	—	—	—	—	—
Short-order cooks	25	17	9	9	—	—	—	—	12	12
Food counter, fountain and related occupations	11	6	19	12	13	7	—	—	—	—
Kitchen workers, food preparation	12	12	—	—	—	—	—	—	—	—
Waiters and waitresses, assistants	41	15	16	9	12	—	—	—	20	19
Miscellaneous food preparation occupations	—	—	—	—	—	—	—	—	—	—
Health service occupations	52	50	85	71	—	—	12	4	—	—
Dental assistants	—	—	—	—	—	—	—	—	—	—
Health aides, except nursing	2	2	12	12	—	—	—	—	—	—
Nursing aides, orderlies, and attendants	50	48	73	59	—	—	12	—	—	—
Cleaning and building service occupations, except household	7 403	1 310	4 691	606	3 131	253	1 254	220	819	82
Supervisors, cleaning and building service workers	62	2	65	—	85	—	—	—	17	—
Maid and housemen	508	272	220	53	118	18	70	29	32	6
Janitors and cleaners	6 673	1 004	4 403	553	2 907	235	1 182	189	770	76
Elevator operators	160	30	3	—	21	—	2	—	—	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—
Personal service occupations	174	89	134	57	38	15	23	13	12	4
Supervisors, personal service occupations	—	—	—	—	—	—	—	—	—	—
Barbers	25	7	—	—	—	—	—	—	—	—
Hairdressers and cosmetologists	5	—	—	—	—	—	—	—	2	2
Attendants, amusement and recreation facilities	28	2	6	19	—	—	6	6	2	2
Guides	—	—	—	—	—	—	—	—	—	—
Librarians	8	—	7	7	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	6	6	6	—	—	—	5	5	—	—
Personal service occupations, n.e.c.	102	74	74	31	38	15	12	2	8	—
Farming, forestry, and fishing occupations	484	62	101	11	133	16	28	—	14	5
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	5	5	7	—	—	—	2	—	—	—
Related agricultural occupations	92	29	49	9	105	16	26	—	2	—
Supervisors, related agricultural occupations	6	6	—	—	6	—	—	—	—	—
Groundkeepers and gardeners, except farm	80	21	47	7	91	16	26	—	2	—
Animal caretakers, except farm	6	2	2	2	—	—	—	—	—	—
Grocers and sales, agricultural products	—	—	—	—	8	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—
Metal industries	—	—	—	—	—	—	—	—	—	—
Blast furnaces, steelworks, rolling and finishing mills	19 048	2 753	—	—	—	—	—	—	—	—
Miscellaneous nonmetallic mineral and stone products	3 005	478	—	—	—	—	—	—	—	—
Pottery and related products	1 035	139	—	—	—	—	—	—	—	—
Structural clay products	1 521	240	—	—	—	—	—	—	—	—
Cement, concrete, gypsum, and plaster products	3 840	307	—	—	—	—	—	—	—	—
Glass and glass products	5 948	898	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample, see Introduction. For meaning of symbols, see appendix A) **17800—Con.**

United States

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.

Supervisors, forestry and logging workers

Timber workers, except logging

Fishers, hunting and trapping

Captains and other officers, fishing vessels

Hunters and trappers

Precision production, craft, and repair occupations

Mechanics and repairers

Supervisors, mechanics and repairers

Mechanics and repairers, except supervisors

Automobile mechanics and repairers

Bus, truck, and stationary engine mechanics

Aircraft engine mechanics

Small engine mechanics

Automobile body and related repairers

Aircraft mechanics, except engine

Heavy equipment mechanics

Farm equipment mechanics

Industrial machinery mechanics

Machinery maintenance occupations

Electrical and electronic equipment repairers

Electronic repairers, communications and industrial equipment

Data processing equipment repairers

Household appliance and power tool repairers

Telephone line installers and repairers

Telephone installers and repairers

Miscellaneous electrical and electronic equipment repairers

Heating, air conditioning, and refrigeration mechanics

Miscellaneous mechanics and repairers

Camera, watch, and musical instrument repairers

Locksmiths and safe repairers

Office machine repairers

Mechanical controls and valve repairers

Elevator installers and repairers

Millwrights

Specialized mechanics and repairers, n.e.c.

Not specified mechanics and repairers

Construction trades

Supervisors, construction occupations

Supervisors, brickmasons, stonemasons, and tile setters

Supervisors, carpenters and related workers

Supervisors, electricians and power transmission installers

Supervisors, painters, paperhangers, and plasterers

Supervisors, plumbers, pipefitters, and steamfitters

Supervisors, n.e.c.

Construction trades, except supervisors

Brickmasons and stonemasons

Tile setters, hard and soft

Carpenters

Drywall installers

Electricians

Electrical power installers and repairers

Painters, construction and maintenance

Paperhangers

Manufacturing, durable goods—Con.

Stone, clay, glass, and concrete products

Furniture and fixtures

Glass and glass products

Cement, concrete, gypsum, and plaster products

Structural clay products

Pottery and related products

Miscellaneous nonmetallic mineral and stone products

Metal industries

Blot furnaces, steelworks, rolling and finishing mills

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, durable goods—Con.										
	Furniture and fixtures				Stone, clay, glass, and concrete products				Metal industries		
	Total	Female	Total	Female	Glass and glass products	Cement, concrete, gypsum, and plaster products	Structural clay products	Pottery and related products	Miscellaneous nonmetallic mineral and stone products	Total	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Construction trades—Con.											
Construction trades, except supervisors—Con.											
Plumbers, pipefitters, and steamfitters	171	—	462	11	—	75	21	—	35	9	—
Concrete and terrazzo finishers	—	—	—	—	—	255	—	6	292	6 833	63
Glaziers	103	41	1 631	170	—	799	11	14	13	85	11
Insulation workers	21	3	185	27	—	31	2	4	4	5	—
Painting, surfacing, and tamping equipment operators	12	—	9	—	—	134	30	11	530	198	—
Roofers	12	—	—	—	—	6	—	—	—	8	—
Sheetmetal duct installers	34	—	4	—	—	47	—	—	39	56	—
Structural metal workers	45	—	20	2	—	51	—	—	10	98	—
Welders	253	18	67	3	—	1 332	5	4	18	2 019	39
Welding, brazing, and soldering	64	22	63	17	—	268	27	9	10	329	—
Construction trades, n.e.c.	—	—	—	—	—	10	—	—	100	422	7
Extrusive occupations	9	—	6	—	—	10	—	—	11	46	—
Supervisors, extractive occupations	27	—	37	8	—	171	—	—	6	6	—
Explosives workers	3	—	5	—	—	40	—	—	11	162	7
Mining machine operators	25	19	15	9	—	37	—	—	19	154	—
Mining occupations, n.e.c.	—	—	—	—	—	—	—	—	53	54	—
Precision production occupations	103 231	16 495	24 539	2 649	—	16 401	385	5 080	17 766	76 689	1 561
Supervisors, production occupations	33 262	3 366	14 123	1 232	—	13 517	329	3 903	10 197	49 007	842
Precision metalworking occupations	5 924	545	5 935	256	—	1 229	19	2 577	3 354	20 748	477
Tool and die makers	1 718	8	343	2	—	83	—	834	6	2 583	114
Precision assemblers, metal	28	—	—	—	—	6	—	147	5	84	6
Mechanists	2 753	340	5 011	119	—	927	9	648	8	13 279	233
Boilermakers	44	—	42	14	—	20	—	10	2 218	2 403	32
Precision grinders, filers, and tool sharpeners	158	8	19	5	—	6	—	—	53	456	33
Patternmakers and model makers, metal	218	32	77	2	—	42	10	12	14	332	6
Lay-out workers	228	59	38	2	—	25	—	7	47	262	5
Precious stones and metals workers (jewelers)	54	14	38	10	—	15	—	2	67	31	—
Engravers, metal	24	—	182	104	—	17	—	3	35	57	3
Sheet metal workers	581	34	172	—	—	88	—	28	157	1 174	31
Miscellaneous precision metal workers	118	50	6	—	—	—	—	7	2	87	14
Precision woodworking occupations	44 573	8 331	64	7	—	42	2	22	31	130	—
Patternmakers and model makers, wood	123	7	24	—	—	12	—	—	5	62	—
Cabinet makers and bench carpenters	31 189	2 394	12	—	—	7	2	7	2	17	—
Furniture and wood finishers	12 826	5 804	20	7	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	435	126	8	—	—	23	—	6	17	51	—
Precision textile, apparel, and furnishings machine workers	17 727	4 002	79	19	—	7	5	8	46	102	16
Dressmakers	804	769	43	8	—	5	5	46	41	42	16
Tailors	137	23	—	—	—	2	—	—	31	—	—
Upholsterers	16 714	3 163	24	2	—	—	—	—	—	—	—
Shoe repairers	9	—	3	3	—	—	—	8	2	11	—
Apparel and fabric patternmakers	11	11	6	—	—	—	—	—	—	11	—
Miscellaneous precision apparel and fabric workers	52	34	3	—	—	—	—	5	8	31	—
Precision workers, assorted materials	783	190	3 639	1 009	—	236	23	451	3 571	1 722	51
Hand molders and shapers, except jewelers	33	—	2 423	413	—	177	15	407	3 324	1 248	35
Patternmakers, lay-out workers, and cutters	63	19	495	306	—	29	8	9	75	107	6
Optical goods workers	—	—	627	247	—	11	—	6	13	23	—
Dental laboratory and medical appliance technicians	12	7	—	—	—	—	14	7	21	5	—
Bookbinders	7	—	—	—	—	—	—	—	—	6	—
Electrical and electronic equipment assemblers	121	90	31	31	—	6	—	6	38	43	—
Miscellaneous precision workers, n.e.c.	547	74	63	12	—	13	—	16	95	290	10
Precision food production occupations	387	39	66	9	—	27	—	7	14	166	14
Butchers and meat cutters	60	—	64	2	—	—	—	—	19	109	14
Bakers	43	—	—	—	—	7	—	—	15	43	—
Food batchmakers	284	39	—	—	—	—	—	—	—	14	—
Precision inspectors, testers, and related workers	100	10	96	—	—	33	—	21	62	5	—
Inspectors, testers, and graders	100	—	80	—	—	33	—	2	56	171	97
Adjusters and calibrators	—	—	16	16	—	—	—	—	6	33	—

led Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

		Manufacturing, durable goods—Con.																													
		Furniture and fixtures				Glass and glass products				Cement, concrete, gypsum, and plaster products				Structural clay products				Pottery and related products				Miscellaneous nonmetallic mineral and stone products				Metal industries					
		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total	
Employed persons 16 years and over—Con.																															
Precision production, craft, and repair occupations—Con.																															
Precision production occupations—Con.																															
Plant and system operators																															
Water and sewage treatment plant operators																															
Stationary engineers																															
Miscellaneous plant and system operators																															
Operators, fabricators, and laborers																															
Machine operators, assemblers, and inspectors																															
Machine operators and tenders, except precision																															
Metalworking and plastic working machine operators																															
Lathe and turning machine set-up operators																															
Lathe and turning machine operators																															
Milling and planing machine operators																															
Punching and stamping press machine operators																															
Rolling machine operators																															
Drilling and boring machine operators																															
Grinding, abrading, buffing, and polishing machine operators																															
Forging machine operators																															
Numerical control machine operators																															
Miscellaneous metal, plastic, stone, and glass working machine operators																															
Fabricating machine operators, n.e.c.																															
Metal and plastic processing machine operators																															
Molding and casting machine operators																															
Metal plating machine operators																															
Heat treating equipment operators																															
Miscellaneous metal and plastic processing machine operators																															
Woodworking machine operators																															
Wood turning, routing, and planing machine operators																															
Sawing machine operators																															
Shaping and joining machine operators																															
Nailing and nailing machine operators																															
Miscellaneous woodworking machine operators																															
Printing machine operators																															
Finishing machine operators																															
Photographers and lithographers																															
Typesetters and compositors																															
Miscellaneous printing machine operators																															
Textile, apparel, and furnishings machine operators																															
Winding and twisting machine operators																															
Knitting, looping, taping, and weaving machine operators																															
Textile cutting machine operators																															
Textile sewing machine operators																															
Shoe machine operators																															
Pressing machine operators																															
Laundry and dry cleaning machine operators																															
Miscellaneous textile machine operators																															
Machine operators, assorted materials																															
Cementing and gluing machine operators																															
Extruding and forming machine operators																															
Mixing and blending machine operators																															
Separating, filtering, and clarifying machine operators																															
Compressing and compacting machine operators																															
Painting and paint spraying machine operators																															
Roasting and baking machine operators, food																															
Washing, cleaning, and pickling machine operators																															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, durable goods—Con.									
	Furniture and fixtures				Stone, clay, glass, and concrete products				Metal industries	
	Total	Female	Total	Female	Glass and glass products	Cement, concrete, gypsum, and plaster products	Structural clay products	Pottery and related products	Miscellaneous nonmetallic mineral and stone products	Total
Employed persons 16 years and over—Con.										
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators and teamsters, except precision—Con.										
Machine operators, assorted materials—Con.										
Folding machine operators	213	147	913	435	30	—	37	13	9	47
Formers, lathe, and oven operators	840	47	2 521	180	1 758	—	1 909	86	28	18 040
Casting and grinding machine operators	402	24	1 530	341	1 142	42	333	26	1 515	36
Slicing and cutting machine operators	4 840	1 318	6 262	1 452	522	32	224	62	1 580	1 337
Monitors and projectionists	10	7	7	3	—	—	—	—	—	9 866
Photographic process machine operators	98	69	63	35	16	—	—	—	29	6
Miscellaneous machine operators, n.e.c.	10 495	3 335	7 983	2 182	3 047	193	2 799	372	4 267	126
Machine operators, not specified	29 093	9 363	16 557	4 036	6 742	294	3 114	871	10 563	15 354
Fabricators, assemblers, and hand working occupations										
Welders and cutters	78 538	25 456	18 501	7 180	6 930	419	4 365	939	5 822	40 969
Solders and brazers	8 457	1 093	1 403	177	4 487	64	566	22	1 435	32 612
Assemblers	129	46	286	152	15	7	9	9	24	67
Hand cutting and finishing occupations	68 466	23 440	14 820	6 098	1 715	303	1 207	520	3 583	7 551
Hand molding, casting, and forming occupations	196	125	19	3	—	—	—	—	31	61
Hand painting, coating, and decorating occupations	178	76	303	32	533	32	790	218	574	325
Hand engraving and printing occupations	797	531	1 028	602	41	—	63	53	88	214
Hand grinding and polishing occupations	3	17	297	152	2	—	19	19	2	27
Miscellaneous hand working occupations	94	36	36	3	—	—	—	—	24	—
Production inspectors, testers, samplers, and weighers	218	126	309	41	137	13	1 711	120	213	112
Production inspectors, checkers, and examiners	11 445	6 382	20 910	15 506	1 022	150	1 746	978	4 161	18 054
Production testers	10 394	6 008	19 913	14 777	854	131	944	559	3 749	16 290
Production samplers and weighers	115	76	397	298	46	8	25	6	12	1 225
Graders and sorters, except agricultural	414	53	42	22	32	7	67	24	21	165
Graders and sorters, except agricultural	522	245	558	409	90	4	710	389	77	374
Transportation and material moving occupations										
Motor vehicle operators	19 055	967	12 192	859	43 678	363	5 760	168	82	67 050
Supervisors, motor vehicle operators	11 025	183	3 392	93	33 434	214	2 048	22	10	10 893
Truck drivers, heavy	14	9	15	—	13	—	—	—	—	28
Truck drivers, light	7 847	138	2 691	52	31 124	170	1 702	13	10	9 403
Driver-sales workers	2 797	18	571	5	2 084	19	293	9	—	768
Bus drivers	163	3	28	2	44	14	7	—	—	64
Taxicab drivers and chauffeurs	20	5	68	23	159	7	46	—	—	82
Parking lot attendants	178	9	19	11	—	—	—	7	—	320
Motor transportation occupations, n.e.c.	6	1	—	—	—	—	—	2	—	19
Rail transportation occupations										
Railroad conductors and yardmasters	11	—	11	—	113	—	15	—	—	9
Locomotive operating occupations	—	—	—	—	67	—	15	—	—	4 416
Railroad brake, signal, and switch operators	11	—	2	—	46	—	—	—	—	528
Rail vehicle operators, n.e.c.	—	—	9	—	—	—	—	—	—	1 833
Water transportation occupations										
Ship captains and mates, except fishing boats	25	—	24	6	181	7	—	—	—	236
Sailors and deckhands	7	—	17	6	117	2	—	—	—	44
Marine engineers	18	—	7	—	52	—	—	—	—	168
Bridge, dock, and light-house tenders	—	—	—	—	12	5	—	—	—	10
Material moving equipment operators										
Supervisors, material moving equipment operators	7 994	784	8 765	760	9 950	142	3 697	146	72	51 505
Operating engineers	89	7	26	63	63	9	44	6	—	335
Longshore equipment operators	19	—	61	—	555	—	—	—	—	574
Hoist and winch operators	—	—	—	—	—	—	—	—	—	19
Crane and tower operators	3	—	20	6	89	7	43	—	—	397
Excavating and loading machine operators	191	7	342	17	1 424	17	74	20	—	32 843
Grader, dozer, and scraper operators	55	13	123	741	741	13	199	15	—	517
Industrial truck and tractor equipment operators	261	19	6 093	452	4 451	3	63	—	—	277
Miscellaneous material moving equipment operators	2 539	496	2 081	283	2 295	32	2 351	59	14	10 664
										5 946

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States														
Employed persons 16 years and over—Con.														
Manufacturing, durable goods—Con.														
Furniture and fixtures		Glass and glass products		Cement, concrete, gypsum, and plaster products		Structural clay products		Pottery and related products		Miscellaneous nonmetallic mineral and stone products		Metal industries		
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Total	Female	28 154	11 546	17 072	817	8 775	1 381	5 220	1 597	12 101	2 527	71 749	5 765	
34 315	10 030													
59	8	40	2	7	—	5	—	—	—	39	—	98	—	
43	6	21	—	69	6	19	—	10	—	53	—	386	17	
814	86	109	6	172	8	91	—	35	—	70	—	1 827	119	
814	86	109	6	172	8	91	—	35	—	70	—	1 814	119	
—	—	—	—	—	—	—	—	—	—	—	—	13	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
221	66	96	14	1 545	56	252	2	18	—	237	17	991	44	
1 334	379	378	54	397	14	132	6	98	50	373	54	8 271	324	
7 308	1 067	4 788	651	2 999	95	2 057	262	1 430	226	1 980	96	10 470	420	
18	3	15	—	—	—	—	—	—	—	—	—	8	—	
5	—	—	—	—	—	—	—	2	—	—	—	—	—	
873	272	241	54	366	43	124	11	127	22	350	23	514	7	
1 338	531	743	144	347	11	745	143	554	89	502	34	1 635	112	
5 074	261	3 789	453	2 286	41	1 188	108	747	115	1 128	39	8 313	301	
33	7	22	7	146	—	—	—	4	—	2	—	81	—	
278	119	643	128	149	—	99	26	123	74	136	10	996	120	
8 820	3 694	13 491	8 745	734	97	1 034	513	1 087	575	3 045	1 418	2 688	797	
15 405	4 598	8 566	1 939	10 854	541	5 089	572	2 415	672	6 166	932	45 981	3 924	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.

Metal industries—Con.

United States	Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	209 174	23 573	174 238	27 718	246 843	52 187	154 268	54 462	449 145	67 383	76 396	19 830	183 947	40 486
Managerial and professional specialty occupations	16 511	1 797	18 188	2 471	28 864	3 736	16 242	2 345	59 297	6 251	8 061	1 179	18 296	2 363
Executive, administrative, and managerial occupations	11 332	1 335	12 163	1 779	19 448	2 642	12 144	1 856	46 333	5 439	6 501	1 010	14 275	1 951
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	6	—	—	—	2	—	7	—	—	—	—	—	—	—
Financial managers	484	78	505	59	982	120	512	105	1 688	349	273	30	393	86
Personnel and labor relations managers	533	86	453	139	709	177	491	87	1 228	184	244	58	529	120
Purchasing managers	122	15	125	15	252	30	141	2	662	30	114	17	213	33
Managers, marketing, advertising, and public relations	880	56	1 097	42	1 730	170	1 634	179	4 149	226	621	82	1 097	70
Managers, education and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations	2 645	592	3 309	925	4 858	1 217	2 324	720	9 312	2 375	1 412	482	3 488	785
Accountants and auditors	1 253	325	1 550	503	2 402	580	1 015	355	3 725	1 116	769	228	1 702	449
Underwriters	116	27	115	26	161	36	100	24	438	75	30	4	107	13
Other financial officers	22	—	36	7	69	12	60	12	203	30	21	4	43	6
Management related occupations, n.e.c.	536	84	945	206	892	253	457	129	1 403	363	233	118	566	121
Personnel, training, and labor relations specialists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction inspectors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors and compliance officers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Professional specialty occupations	5 179	462	6 025	692	9 416	1 094	4 098	489	12 894	812	1 540	169	4 021	412
Engineers, architects, and surveyors	4 086	133	4 259	155	6 597	358	3 008	159	10 042	248	1 259	81	2 997	108
Architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers	4 076	133	4 259	155	6 535	358	3 008	159	9 959	248	1 259	81	2 997	108
Aerospace engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chemical engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nuclear engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mechanical engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Operations and systems researchers and analysts	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Actuaries	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see appendix A] 1700—Cont.

United States

Manufacturing, durable goods—Con.

Metal industries—Con.

Iron and steel foundries

Primary aluminum industries

Other primary metal industries

Cutlery, handtools, and other hardware

Fabricated structural metal products

Screw machine products

Metal forgings and stampings

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Production, craft, and nonfarm miscellaneous occupations—Con.

Nonfarm miscellaneous occupations—Con.

Physicists and astronomers

Chemists except biochemists

Atmospheric and space scientists

Geologists and geodesists

Physical scientists, n.e.c.

Agricultural and food scientists

Biological and life scientists

Forestry and conservation scientists

Medical scientists

Health diagnosing occupations

Physicians

Dentists

Veterinarians

Optometrists

Podiatrists

Health diagnosing practitioners, n.e.c.

Health assessment and treating occupations

Registered nurses

Pharmacists

Dietitians

Therapists

Physicians' assistants

Teachers, postsecondary

Teachers, except postsecondary

Teachers, kindergarten and kindergarten

Teachers, elementary and secondary school

Teachers, special education

Teachers, n.e.c.

Counselors, educational and vocational

Librarians, archivists, and curators

Archivists and curators

Social scientists and urban planners

Economists

Psychologists

Sociologists

Social scientists, n.e.c.

Urban planners

Social workers

Social, recreation, and religious workers

Recreation workers

Clergy

Religious workers, n.e.c.

Lawyers and judges

Judges

Writers, artists, entertainers, and athletes

Authors

Technical writers

Designers

Musicians and composers

Actors and directors

Painters, sculptors, craft-artists, and artist printmakers

Photographers

Dancers

Artists, performers, and related workers, n.e.c.

Editors and reporters

Public relations specialists

Announcers

Athletes

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction for meaning of symbols, see introduction for definitions of terms, see appendix A.)

Manufacturing, durable goods—Con.

United States

Metal industries—Con.

Occupation	Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations	24 663	10 987	23 853	11 516	37 865	18 456	26 430	14 719	76 919	35 531	13 774	7 092	25 070	12 805
Technicians and related support occupations	4 050	549	3 993	625	6 124	1 012	2 254	333	15 962	1 455	970	135	3 070	359
Health technicians and technicians	81	62	41	2	95	15	23	23	82	23	26	7	67	37
Clinical laboratory technologists and technicians	5	—	10	—	2	—	—	—	18	—	7	—	24	7
Dental hygienists	—	—	—	—	8	—	—	—	—	—	—	—	—	—
Health record technicians and technicians	—	—	—	—	8	—	—	—	—	—	—	—	—	—
Radiologic technicians	—	—	—	—	11	—	—	—	—	—	—	—	—	—
Licensed practical nurses	55	50	6	2	7	7	16	16	16	21	12	—	30	30
Health technicians and technicians, n.e.c.	21	12	16	—	59	—	5	—	5	2	—	—	13	—
Engineering and related technologists and technicians	2 989	331	2 631	336	3 946	557	1 402	153	13 501	1 069	648	79	2 270	131
Electrical and electronic technicians	74	—	221	14	413	15	87	—	316	33	13	—	167	20
Industrial engineering technicians	123	15	46	6	2	2	50	12	83	9	6	—	39	2
Mechanical engineering technicians	38	10	35	—	15	—	95	2	59	—	16	—	36	—
Engineering technicians, n.e.c.	1 737	283	1 356	225	2 467	471	283	78	4 180	387	335	60	778	66
Drafting occupations	977	43	814	91	998	69	887	48	8 846	640	278	19	1 250	43
Surveying and mapping technicians	—	—	19	—	13	—	—	—	17	—	—	—	—	—
Science technicians	382	32	356	64	669	116	146	24	478	35	64	12	155	38
Biological technicians	8	—	—	—	18	—	—	—	—	—	—	—	—	—
Chemical technicians	95	3	98	—	243	99	37	—	117	16	7	—	62	6
Science technicians, n.e.c.	279	29	238	35	308	57	101	23	361	19	57	12	93	32
Technicians, except health, engineering, and science	598	124	565	223	1 414	324	683	133	1 901	328	232	44	576	133
Airplane pilots and navigators	19	—	11	—	25	—	29	—	65	—	—	—	27	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	8	—	9	4	8	—	4	—	27	—	—	—	—	—
Computer programmers	273	63	408	136	627	171	426	117	1 090	240	127	34	305	106
Tool programmers, numerical control	19	6	8	—	17	—	23	—	9	2	23	—	41	6
Legal assistants	—	—	—	—	6	—	5	—	8	—	—	—	28	21
Technicians, n.e.c.	279	55	508	64	736	140	193	11	610	78	82	10	177	—
Sales occupations	2 444	221	3 091	453	4 258	697	4 273	709	10 918	1 076	2 014	424	2 770	667
Supervisors and proprietors, sales occupations	143	—	195	6	302	52	243	48	780	27	128	46	204	49
Salaried	141	—	178	6	285	52	219	46	716	27	122	46	204	49
Self-employed	2	—	17	—	17	—	24	2	64	—	6	—	—	—
Sales representatives, finance and business services	21	—	15	—	15	—	76	40	33	13	12	6	20	13
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	13	—	10	—	8	—	—	—	6	6	—	—	—	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	8	—	5	—	7	—	76	40	—	7	—	—	—	—
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	2 137	174	2 720	344	3 801	541	3 816	553	9 660	826	1 777	326	2 393	508
Sales engineers	328	—	139	9	424	17	131	—	1 169	14	96	—	193	13
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	1 809	174	2 581	335	3 377	524	3 685	553	8 491	812	1 681	326	2 200	495
Sales workers, commodities	126	47	121	69	116	80	128	66	427	200	90	39	68	18
Sales counter clerks	27	—	22	—	5	—	34	—	73	8	9	7	27	2
Cashiers	14	—	6	—	12	—	61	—	—	—	—	—	—	—
Street and door-to-door sales workers	24	13	22	13	46	31	22	54	108	76	19	7	13	8
News vendors	53	32	71	56	48	32	22	12	233	111	57	20	18	6
Sales related occupations	8	—	—	—	5	—	11	—	13	5	5	5	8	—
Demonstrators, promoters and models, sales	17	—	40	34	24	24	10	2	18	10	7	7	85	79
Auctioneers	11	—	34	34	24	24	—	—	10	10	—	—	79	79
Sales support occupations, n.e.c.	6	—	—	—	—	—	10	2	8	—	7	—	—	—
Administrative support occupations, including clerical	18 149	10 217	16 769	10 438	27 483	16 747	19 903	13 677	50 039	33 000	10 790	6 533	19 230	11 729
Supervisors, administrative support occupations	1 208	190	1 267	297	2 104	452	1 392	486	3 246	934	603	106	1 541	321
Supervisors, general office	86	—	362	115	427	242	488	253	1 101	514	191	65	479	172
Supervisors, computer equipment operators	16	—	68	—	92	—	45	—	127	45	16	—	13	—
Supervisors, financial records processing	228	77	309	123	524	94	266	119	632	263	115	36	300	81
Chief clerks	—	—	19	—	2	—	7	—	18	—	—	—	—	—
Stenographers, distribution, scheduling, and adjusting clerks	620	20	509	32	859	95	586	85	1 368	112	281	5	749	57
Computer equipment operators	620	990	553	32	1 030	540	611	375	1 401	847	294	199	587	382
Computer operators	570	360	531	293	979	502	1 360	340	1 360	827	282	187	541	343
Peripheral equipment operators	50	30	22	14	51	38	76	35	41	20	12	12	46	39

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Manufacturing, durable goods—Con.															
Metal industries—Con.															
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
3 942	3 648	4 738	4 671	7 111	7 024	4 560	4 466	14 222	13 940	2 160	2 132	4 591	4 532		
3 445	3 415	4 340	4 313	6 281	6 213	3 956	3 875	13 104	12 832	1 845	1 817	3 906	3 856		
44	44	22	22	73	73	18	18	154	154	8	8	73	73		
453	409	376	336	757	745	586	573	964	954	307	307	612	603		
293	285	330	275	458	397	316	314	1 224	1 095	235	210	427	402		
7	7	15	7	36	36	82	80	73	36	13	8	8	8		
5	5	33	7	11	—	—	—	10	—	—	—	20	6		
256	256	235	248	354	354	208	208	1 004	992	192	187	371	368		
25	17	27	13	57	—	26	26	137	67	30	23	28	20		
972	476	826	433	1 303	758	1 219	779	2 089	1 192	590	359	955	462		
—	—	—	—	5	—	15	8	24	10	—	—	5	—		
50	44	21	12	39	34	54	46	83	37	8	8	48	37		
270	134	251	142	478	278	628	383	1 034	574	315	175	361	185		
133	104	146	124	170	147	59	59	148	143	70	70	94	75		
—	—	—	—	10	10	—	—	6	6	—	—	—	—		
478	160	357	117	578	275	428	260	758	413	185	94	432	147		
41	34	51	38	20	14	35	23	36	9	12	12	15	13		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
3 104	2 440	2 110	1 685	3 663	3 028	3 212	2 884	8 970	7 894	1 692	1 499	2 949	2 354		
1 433	1 249	1 475	1 192	2 473	2 120	2 010	1 856	7 059	6 347	1 261	1 147	1 951	1 688		
311	938	372	259	695	562	774	656	1 172	990	203	165	636	423		
199	171	218	210	270	225	240	240	469	407	126	126	199	176		
143	70	34	21	211	107	160	108	212	108	73	45	142	48		
18	12	11	3	14	14	28	28	58	42	29	16	21	19		
51	21	47	20	45	37	30	16	68	23	26	26	40	28		
12	6	22	9	13	13	9	5	41	11	—	—	21	15		
18	6	25	20	21	21	5	5	27	12	26	26	19	13		
21	15	—	—	11	3	16	11	—	—	—	—	—	—		
154	133	155	133	251	233	68	68	320	285	57	57	121	121		
149	133	155	133	251	233	68	68	318	285	57	57	121	121		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
5	—	—	—	—	—	—	—	2	—	—	—	—	—		
139	30	139	36	305	88	172	99	426	155	72	28	127	85		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
97	24	121	36	237	77	149	91	319	141	72	28	97	77		
42	6	18	6	68	11	23	8	107	14	—	—	30	8		
5 258	843	4 318	986	7 682	1 566	5 695	1 955	11 906	2 374	3 591	748	5 393	1 263		
38	—	51	—	42	15	26	—	78	2	—	—	7	2		
1 105	311	907	251	1 437	395	948	517	2 163	590	399	140	1 126	338		
1 818	210	1 768	298	3 349	477	2 728	712	5 191	646	1 896	256	2 396	433		
1 520	188	1 125	337	1 889	477	1 618	547	3 321	809	955	266	1 474	400		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
348	26	276	32	563	37	97	56	211	45	109	36	101	—		
13	—	—	—	4	—	—	—	—	—	—	—	—	—		
374	100	183	68	360	128	267	114	854	248	218	42	280	90		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
42	8	8	—	38	17	11	9	88	34	14	8	9	—		
161	72	191	94	304	207	201	166	337	159	28	14	216	116		
153	66	139	72	254	179	155	120	277	131	28	14	175	97		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
8	6	52	22	50	28	46	46	60	28	—	—	34	12		
2 267	1 469	2 095	1 501	3 230	2 417	2 427	2 067	5 830	4 102	1 442	1 155	2 283	1 713		
1 426	924	1 273	913	1 969	1 451	1 580	1 354	3 570	2 790	887	691	1 509	1 108		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	2	2	7	7	7	7	—	—	—	—		
414	402	501	471	785	747	571	558	1 103	1 045	405	399	461	456		
157	77	86	33	163	79	79	32	196	107	20	14	65	20		
3	—	—	—	9	—	9	—	6	—	—	—	—	—		
267	66	227	84	311	138	181	107	948	153	129	51	248	129		

Employed Persons by Detailed Industry and Sex: 1980—Con.

Employed persons 16 years and over—Con.									
	Total	Female	Total	Female	Total	Female	Total	Female	Female
Service occupations	6 228	629	5 052	632	6 432	642	3 071	526	136
Private household occupations	1 264	70	1 080	101	1 753	70	531	44	13
Protective service occupations	31	7	48	—	56	—	27	—	—
Supervisors, preventive service occupations	—	—	—	—	17	—	—	—	—
Supervisors, fire fighting and fire prevention occupations	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—
Supervisors, guards	25	7	48	—	39	—	27	—	—
Fire fighting and fire prevention occupations	19	—	32	—	30	—	23	—	—
Fire inspection and fire prevention occupations	19	—	27	—	20	—	9	—	—
Firefighting occupations	—	—	5	—	10	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—
Correctional institution officers	1 214	63	1 000	101	1 667	70	504	44	13
Guards	—	—	—	—	—	—	—	—	—
Crossing guards	1 214	63	1 000	101	1 667	70	504	44	13
Guards and police, except public service	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	4 964	559	3 972	531	4 679	572	2 540	482	123
Food preparation and service occupations	139	97	111	77	132	59	122	76	22
Supervisors, food preparation and service occupations	13	13	—	—	11	6	—	—	—
Bar tenders	—	—	—	—	9	—	—	—	—
Waiters and waitresses	13	7	12	12	9	9	5	5	—
Cooks, except short order	60	43	28	28	61	28	49	30	22
Short-order cooks	7	—	—	—	—	—	—	—	—
Food counter, fountain and related occupations	14	2	2	2	9	7	—	—	—
Kitchen workers, food preparation	5	5	—	—	—	—	—	—	—
Waiters' and waitresses' assistants	—	—	19	11	2	9	7	7	—
Miscellaneous food preparation occupations	27	27	50	24	24	9	61	34	—
Health service occupations	70	31	48	40	42	29	42	42	6
Dental assistants	9	9	—	—	6	6	—	—	—
Health aides, except nursing	—	—	—	—	—	—	—	—	—
Nursing aides, orderlies, and attendants	56	22	48	40	36	23	42	42	6
Cleaning and building service occupations, except household	4 379	426	3 729	377	4 452	464	2 348	350	90
Supervisors, cleaning and building service workers	171	—	43	—	107	—	33	—	—
Maid and houseman	194	14	205	65	274	85	142	21	4
Janitors and cleaners	4 365	412	3 450	310	4 047	379	2 118	329	86
Elevator operators	—	—	16	2	16	—	55	—	—
Pest control occupations	—	—	15	—	8	—	—	—	—
Personal service occupations	25	5	84	37	53	20	28	14	5
Supervisors, personal service occupations	—	—	7	—	13	—	—	—	—
Barbers	—	—	—	—	—	—	—	—	—
Hairdressers and cosmetologists	—	—	12	12	—	—	5	—	—
Attendants, amusement and recreation facilities	8	—	20	1	11	—	8	8	—
Guides	—	—	—	—	3	3	—	—	—
Ushers	12	—	9	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	9	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—
Child care workers, except private household	—	5	15	15	4	4	9	—	—
Personal service occupations, n.e.c.	5	5	21	9	13	13	6	6	5
Farming, forestry, and fishing occupations	62	2	91	6	104	21	47	14	—
Farm operators and managers	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—
Related agricultural occupations	36	—	83	6	70	21	24	14	—
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	—	—	—	—	—	—	—	—	—
Animal caretakers, except farm	36	—	83	6	70	21	24	14	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—
Instructors, agricultural products	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Metal industries—Con.													
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
13	—	7	—	8	8	6	—	—	—	7	—	6	—
763	23	1 043	19	1 221	12	216	2	1 878	5	28	—	548	—
9	—	3	—	—	—	—	—	38	—	—	—	—	—
12	—	7	—	13	—	10	—	449	158	—	—	—	—
2	—	29	7	15	—	13	—	154	19	—	—	—	—
—	—	7	—	6	—	—	—	—	—	—	—	—	—
—	—	6	—	—	—	5	—	127	—	—	—	—	—
8	—	28	—	69	—	16	—	3 109	41	—	—	13	—
367	—	101	—	183	3	80	8	9 588	140	5	—	104	7
13	—	2	—	7	—	10	3	55	7	2	—	20	10
33	—	121	8	47	—	7	5	747	5	5	—	29	—
232	9	73	24	195	5	19	—	61	—	—	—	—	—
12	—	10	7	72	—	15	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	—
189	9	34	10	36	—	—	—	47	—	—	—	22	—
23	—	6	—	59	5	4	—	8	—	5	—	7	—
—	—	23	7	28	—	—	—	6	—	—	—	—	—
31 589	873	22 217	1 019	32 373	2 293	21 199	2 251	72 371	1 936	12 137	757	32 007	1 182
15 705	427	13 652	653	18 040	963	8 596	1 038	33 798	938	4 619	262	12 243	624
7 191	240	5 634	144	10 393	484	11 007	1 980	36 092	798	7 091	375	18 543	370
790	17	1 977	47	3 315	96	5 007	199	2 533	25	1 950	39	11 830	75
28	—	38	—	76	—	22	16	42	3	21	—	51	—
4 193	102	2 926	60	5 651	223	4 959	476	7 662	223	4 772	316	5 424	252
37	—	120	—	283	17	34	—	3 457	82	29	—	12	—
133	12	54	—	179	2	545	57	131	4	184	6	147	5
1 419	37	1 337	6	1 777	17	39	5	692	12	11	—	160	—
214	7	43	—	25	—	32	—	444	26	6	—	14	—
13	13	11	—	42	13	52	13	15	4	32	5	71	9
—	—	14	—	41	23	21	2	45	33	21	9	61	6
305	—	287	19	562	13	245	—	21 014	380	52	—	688	16
59	28	27	8	42	2	51	—	57	6	13	—	105	—
271	4	69	—	50	—	76	—	106	—	6	—	42	6
145	—	42	—	31	—	14	—	10	—	—	—	21	—
18	—	2	—	—	—	60	—	37	—	6	—	6	—
4	—	—	—	1	—	—	—	—	—	—	—	—	—
104	4	25	—	18	—	6	—	33	—	—	—	15	—
17	—	7	2	36	2	48	25	41	15	10	—	42	—
2	—	—	—	17	2	20	6	27	15	—	—	—	—
4	—	—	—	6	—	18	9	—	—	—	—	—	—
—	—	—	—	13	—	8	8	—	—	—	—	42	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	2	2	—	—	2	2	14	—	10	—	—	—
—	—	5	—	—	—	—	—	—	—	—	—	—	—
7 778	164	1 962	146	1 918	439	699	214	909	118	185	55	494	73
7 118	121	1 699	50	1 513	275	155	43	515	20	40	10	184	25
407	15	77	5	123	6	49	10	93	18	—	—	102	6
67	7	11	—	—	—	—	—	10	5	—	—	—	—
—	—	7	7	—	—	15	—	6	—	7	7	—	—
11	—	7	—	—	—	12	12	—	—	—	—	—	—
42	2	44	34	154	128	47	23	78	33	17	11	45	27
133	19	117	50	128	30	421	126	207	42	121	27	163	15
45	4	44	—	60	—	33	—	130	3	6	—	34	—
31	—	42	—	52	—	28	—	109	3	—	—	20	—
9	4	2	—	8	—	5	—	21	—	6	—	14	—
5	—	—	—	—	—	—	—	—	—	—	—	—	—
150	34	183	53	1 051	399	447	194	367	25	117	52	288	58
143	27	183	53	1 044	399	432	194	367	25	117	52	288	58
7	7	—	—	7	—	15	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Masons, pipefitters, and steamfitters

Concrete and masonry finishers

Glaziers

Insulation workers

Roofing, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extrusive occupations

Services, extractive occupations

Delayers, oil well

Employers

Mining machine operators

Milling occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precision stones and metals workers (jewellers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Pottery makers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Shoemakers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewellers

Pottery makers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Metal industries—Con.													
Iron and steel foundries	Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
432	—	666	21	825	26	293	—	928	39	103	13	301	9
14	—	17	—	46	—	28	—	32	—	—	—	25	—
48	—	76	—	87	—	—	—	29	—	—	—	260	2
337	—	468	21	552	8	241	—	816	31	96	13	7	—
33	—	105	—	140	18	24	—	51	8	—	—	—	—
114 245	9 087	87 152	11 623	123 259	26 482	81 183	34 166	199 309	22 004	38 686	10 646	92 523	23 312
82 341	7 457	59 785	8 882	94 303	23 089	67 356	28 690	159 160	18 838	33 813	9 646	75 543	20 386
61 604	4 512	46 923	5 494	72 024	13 362	44 783	15 106	68 118	8 625	27 781	6 431	52 607	12 711
18 074	1 415	9 986	1 444	12 585	2 594	18 730	4 854	21 374	2 381	12 804	2 186	26 525	6 250
693	60	616	32	1 428	79	1 922	121	1 355	30	2 702	69	1 742	47
1 335	54	482	70	1 217	84	1 294	169	1 497	56	4 082	545	1 503	91
138	10	186	15	135	10	512	97	287	14	263	83	211	2
1 945	286	3 113	673	2 875	1 304	4 293	2 016	8 735	1 479	1 028	551	14 981	5 241
824	128	788	49	944	79	935	96	988	213	213	46	295	87
666	67	466	141	487	142	438	382	1 947	173	719	376	890	223
11 568	782	3 390	345	4 329	736	7 830	1 735	5 925	413	1 891	439	3 883	467
468	12	113	2	325	21	806	65	201	19	1 530	28	2 622	67
11	—	—	—	7	—	25	12	36	—	—	—	19	—
406	26	932	117	838	139	685	161	403	44	376	49	379	25
263	14	476	86	1 391	386	644	261	1 396	244	172	26	325	166
9 150	671	4 893	349	6 518	742	2 871	495	2 979	350	1 217	85	2 910	380
6 703	569	3 569	227	4 478	577	995	290	1 273	285	159	48	921	281
157	29	613	46	633	60	878	135	659	34	519	13	414	81
1 547	38	491	30	1 090	68	826	43	264	2	527	24	1 451	11
743	35	220	46	317	37	172	27	783	29	12	12	124	7
473	15	1 250	102	747	221	396	152	1 475	255	122	12	234	23
5	5	5	—	5	—	27	13	1	—	—	—	4	—
297	6	1 138	96	552	84	200	77	1 328	239	85	3	201	15
132	5	73	—	155	117	37	7	97	7	2	—	22	8
—	—	6	—	20	13	24	24	16	2	24	9	—	—
39	4	28	6	15	7	108	31	33	7	11	—	7	—
132	33	254	53	242	90	286	140	352	52	64	31	437	104
108	16	163	34	172	72	272	140	271	50	48	24	139	44
—	—	8	—	6	—	—	—	12	—	—	—	54	15
8	8	8	—	20	13	—	—	17	—	—	—	34	11
16	9	81	19	44	3	14	—	62	2	16	7	49	11
206	54	159	28	615	335	283	150	443	165	20	13	175	34
10	—	2	2	94	30	12	5	38	6	—	—	241	170
12	—	—	—	37	21	3	—	35	—	—	—	2	2
12	—	13	—	2	—	—	—	35	—	2	—	—	—
88	40	70	21	236	160	156	102	207	124	10	6	204	150
2	—	5	—	10	4	8	6	6	—	—	—	—	—
25	—	—	—	12	7	9	9	13	—	—	—	—	—
57	14	59	5	198	113	89	28	102	35	8	7	11	11
33 306	2 350	29 905	3 432	49 926	8 994	21 573	9 054	40 099	5 178	13 382	4 078	21 935	5 618
88	46	65	19	171	65	151	92	126	58	19	19	103	48
65	20	95	21	136	40	276	224	213	20	107	73	159	75
318	89	367	45	1 704	91	98	13	213	54	50	14	59	36
678	43	454	28	660	24	56	2	406	19	22	—	210	38
23	—	298	18	587	18	13	—	144	6	—	—	46	—
44	2	229	5	213	38	93	55	45	13	33	19	321	51
563	119	544	112	1 359	310	936	345	4 174	398	133	43	1 131	175
49	—	21	—	57	9	9	—	22	—	6	—	40	—
370	52	117	14	84	11	22	2	32	1	31	—	6	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Forging machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal plating machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Woodworking machine operators

Wood lathe, routing, and planing machine operators

Sawing machine operators

Shaping and joining machine operators

Nailing and locking machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Photoengraving and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Winding and twisting machine operators

Knitting, looping, taping, and weaving machine operators

Textile cutting machine operators

Textile sewing machine operators

Shoe machine operators

Pressing machine operators

Laundry and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and filling machine operators

Packaging and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and dewatering machine operators

Compressing and compacting machine operators

Painting and printing machine operators

Roasting and baking machine operators, food

Washing, cleaning, and pickling machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Metal industries—Con.													
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
131	3	110	19	196	67	100	68	128	43	34	9	91	46
9 444	219	8 188	186	7 621	324	520	128	1 591	44	270	21	1 124	109
2 330	31	2 142	318	2 453	536	1 245	394	6 297	26	36	6	1 889	169
1 301	69	—	—	—	549	—	—	—	484	—	—	—	—
25	7	51	13	62	12	35	28	203	113	31	15	41	23
8 112	789	5 785	685	12 295	2 944	4 478	1 848	6 487	909	3 245	885	4 527	1 262
9 758	861	11 068	1 948	21 792	4 459	13 440	5 831	19 769	2 990	9 047	2 921	11 987	3 610
13 980	1 698	7 992	1 845	14 320	6 185	17 643	10 620	84 421	9 155	2 810	1 431	15 936	5 349
8 779	250	3 581	165	4 609	475	2 548	513	58 447	1 476	494	51	7 304	1 105
107	17	126	15	381	271	142	106	266	71	2	2	1 200	75
4 871	1 407	4 141	1 589	9 113	5 378	14 617	9 899	25 323	7 545	2 264	1 362	8 328	4 113
21	—	29	8	26	15	35	7	62	15	12	—	17	9
53	3	78	15	37	11	106	36	71	6	7	—	40	20
53	—	69	15	87	5	41	17	121	17	15	—	54	11
2	—	7	—	—	—	—	—	32	5	—	—	7	—
35	—	21	8	10	2	101	10	36	9	—	—	41	11
59	12	55	40	57	28	53	32	63	11	16	16	25	5
6 757	1 207	4 870	1 543	7 959	3 542	4 930	2 964	6 621	1 058	3 222	1 784	7 000	2 326
6 252	1 154	4 568	1 500	7 055	3 247	4 614	2 791	6 108	964	2 958	1 643	6 776	2 274
246	9	185	6	747	233	162	87	373	38	21	15	87	8
32	—	24	—	36	8	28	—	18	—	18	—	59	10
227	44	93	37	121	54	126	86	122	56	225	118	78	34
13 622	460	12 151	496	12 904	722	4 180	407	18 871	524	1 719	71	8 229	410
3 348	123	3 301	86	3 129	73	1 296	32	8 596	140	658	31	1 769	31
—	—	13	—	—	3	—	—	6	—	—	—	19	—
2 829	76	2 878	68	2 642	51	863	10	6 877	109	485	17	1 370	16
379	17	357	16	323	5	348	8	1 526	31	153	14	240	8
28	2	14	—	21	4	20	7	45	—	15	—	13	—
9	—	3	2	135	10	12	7	4	—	5	—	127	7
103	—	32	—	—	—	50	—	134	—	—	—	—	—
—	—	4	—	5	—	3	—	4	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
131	—	74	—	330	2	—	—	125	—	—	—	2	—
13	—	7	—	6	—	—	—	6	—	—	—	—	—
31	—	19	—	191	—	—	—	31	—	—	—	2	—
87	—	48	—	127	2	—	—	88	—	—	—	—	—
—	—	—	—	6	—	—	—	—	—	—	—	—	—
19	—	34	—	47	15	2	—	2	—	—	—	5	—
19	—	13	—	23	15	—	—	2	—	—	—	5	—
—	—	19	—	20	—	—	—	—	—	—	—	—	—
—	—	—	—	4	—	—	—	—	—	—	—	—	—
—	—	2	—	—	—	2	—	—	—	—	—	—	—
10 124	337	8 742	410	9 398	632	2 882	375	10 148	384	1 061	40	6 453	379
41	—	19	—	78	10	23	—	82	—	18	—	56	—
57	—	133	—	160	—	5	—	109	—	5	—	24	—
13	—	—	—	—	—	—	—	18	—	—	—	—	—
153	9	124	20	79	13	51	17	46	8	15	—	60	9
4 385	92	3 457	140	2 731	61	183	7	4 347	63	119	4	965	43
204	—	106	—	112	—	13	13	127	—	—	—	—	—
23	—	23	—	21	6	—	—	42	—	—	—	—	—
175	—	3 824	170	4 405	225	1 520	100	3 567	105	697	15	3 866	180
1 069	61	1 056	80	1 812	315	1 087	238	1 810	208	207	21	1 477	147

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.

Folding machine operators
Furnace, kiln, and oven operators, except food
Crushing and grinding machine operators
Slicing and cutting machine operators
Motion picture projectionists
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified

Fabricators, assemblers, and hand working occupations
Welders and cutters
Solders and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating and decorating occupations
Hand engraving and printing occupations
Hand engraving and polishing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural

Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.

Rail transportation occupations
Railroad conductors and yardmasters
Railroad operating engineers
Railroad track, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders

Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Manufacturing, durable goods—Con

Employed persons 16 years and over—Con.

Operators, technicians, and laborers—Con.
Thermians, equipment cleaners, helpers, and laborers—
Superiors; handlers, equipment cleaners, and laborers—
n.e.c.
Helpers, mechanics and helpers
Helpers, construction and extractive occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations
Construction laborers
Production helpers
Freight, stock, and material handlers
Garbage collectors
Streetvenders
Stock handlers and buggers
Freight loaders and offloaders
Freight, stock, and material handlers, n.e.c.
Garage and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Manufacturing, durable goods—Con.														
		Metal industries—Con.						Machinery, except electrical								
		Ordinance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines		Metalworking machinery		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over																
Managerial and professional specialty occupations																
Executive, administrative, and managerial occupations																
Legislators, chief executives, and general administrators																
Public administration																
Administrators and officials, public administration																
Federal																
State																
Local																
Administrators, protective services																
Financial managers																
Personnel and labor relations managers																
Purchasing managers																
Managers, marketing, advertising, and public relations																
Managers, education and related fields																
Managers, medicine and health																
Managers, properties and real estate																
Postmasters and mail superintendents																
Funeral directors																
Managers and administrators, n.e.c.																
Salaried																
Self-employed																
Management related occupations																
Accountants and auditors																
Underwriters																
Other financial officers																
Management analysts																
Personnel, training, and labor relations specialists																
Purchasing agents and buyers, farm products																
Buyers, wholesale and retail trade except farm products																
Purchasing agents and buyers, n.e.c.																
Business and promotion agents																
Construction inspectors																
Inspectors and compliance officers, except construction																
Management related occupations, n.e.c.																
Professional specialty occupations																
Engineers, architects, and surveyors																
Architects																
Engineers																
Aerospace engineers																
Metallurgical and materials engineers																
Mining engineers																
Petroleum engineers																
Chemical engineers																
Nuclear engineers																
Civil engineers																
Agricultural engineers																
Electrical and electronic engineers																
Industrial engineers																
Mechanical engineers																
Marine engineers and naval architects																
Engineers, n.e.c.																
Surveyors and mapping scientists																
Mathematical and computer scientists																
Computer systems analysts and scientists																
Operations and systems researchers and analysts																
Astronomers																
Statisticians																
Mathematical scientists, n.e.c.																

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Manufacturing, durable goods—Con.																
Metal Industries—Con.																
Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines		Metallworking machinery				
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
279	33	760	94	24	2	142	10	164	19	242	21	171	33			
31	33	39	—	—	—	16	—	25	—	10	—	18	9			
192	—	673	84	22	—	102	4	67	19	200	21	112	6			
8	—	6	—	—	—	11	6	13	—	25	—	12	12			
9	—	2	—	—	—	6	—	7	—	7	—	9	—			
5	—	15	2	—	—	—	—	—	—	—	—	—	—			
26	—	25	8	2	2	7	—	25	—	—	—	—	—			
8	—	—	—	—	—	—	—	—	—	—	—	—	—			
—	—	—	—	—	—	—	—	—	—	—	—	—	—			
20	—	11	7	—	—	—	—	—	—	—	—	—	—			
20	—	4	—	—	—	27	8	7	7	—	—	—	—			
—	—	7	7	—	—	25	8	7	7	—	—	—	—			
—	—	—	—	—	—	—	—	—	—	—	—	—	—			
—	—	—	—	—	—	2	—	—	—	—	—	—	—			
—	—	—	—	—	—	—	—	—	—	—	—	—	—			
93	82	395	—	10	—	114	94	230	—	436	—	215	—			
93	82	381	380	10	—	101	94	230	223	407	394	215	204			
—	—	7	7	—	—	7	—	—	—	—	—	—	—			
—	—	7	—	—	—	—	—	—	—	—	—	—	—			
—	—	7	—	—	—	6	—	—	—	—	—	—	—			
2	—	10	—	6	6	9	—	23	—	10	—	—	—			
53	10	80	22	—	—	120	13	60	14	251	—	52	19			
—	—	—	—	—	—	—	—	—	—	—	—	176	—			
—	—	—	—	—	—	—	—	—	—	—	—	—	—			
53	10	80	22	—	—	120	13	60	14	243	—	8	—			
24	14	34	27	—	—	38	31	7	—	64	49	28	—			
24	14	34	27	—	—	38	31	7	—	56	41	28	—			
—	—	—	—	—	—	—	—	—	—	8	8	—	—			
—	—	—	—	—	—	—	—	—	—	—	—	—	—			
76	17	389	55	5	—	212	40	200	49	467	69	277	54			
62	10	382	55	5	—	205	40	200	49	467	69	277	54			
7	—	—	—	—	—	7	—	—	—	—	—	—	—			
7	7	7	—	—	—	—	—	—	—	—	—	—	—			
9	7	24	—	—	—	12	—	12	—	7	—	—	—			
9	7	8	—	6	6	4	—	9	—	7	—	—	—			
—	—	8	—	—	—	8	—	3	—	2	—	12	6			
—	—	—	—	—	—	—	—	—	—	5	—	12	6			
23	—	155	27	13	—	46	3	49	2	264	33	99	9			
23	—	155	27	13	—	46	3	49	2	264	33	99	9			
—	—	—	—	—	—	—	—	—	—	—	—	—	—			
508	53	1 322	181	108	37	936	117	1 151	168	2 711	289	1 811	195			
15	13	—	—	—	—	7	—	2	—	—	—	—	—			
81	17	678	41	43	—	196	22	163	14	431	72	192	40			
225	13	91	14	—	—	473	6	552	24	1 446	58	1 290	29			
4	—	14	—	—	—	2	—	4	—	15	2	8	—			
67	16	174	46	7	—	60	25	132	27	222	50	87	14			
64	2	67	6	8	8	13	—	36	—	151	22	27	39			
—	—	—	—	—	—	26	—	17	—	—	—	—	—			
10	—	11	5	—	—	47	14	100	6	—	—	—	5			
21	5	60	16	7	7	112	23	145	25	181	38	6	6			
21	—	213	53	43	22	—	—	—	72	228	47	73	21			
—	—	—	—	—	—	—	—	—	—	—	—	—	—			

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

[Data are estimates based on a sample; see introduction, for limitations of survey, see appendixes.]

United States

Manufacturing, durable goods—Con.

Metal industries—Con.

Machinery, except electrical

Variance	Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines		Metalworking machinery	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
15 557	7 984	75 221	38 864	5 562	2 621	24 038	10 722	33 671	16 223	81 459	35 329	62 074
3 682	449	9 506	1 353	595	75	5 201	625	3 752	535	13 457	1 409	10 889
69	5	104	56	—	—	55	6	39	21	16	—	28
10	—	15	13	—	—	21	—	9	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—
12	5	57	36	—	—	11	4	5	—	54	47	20
34	—	32	7	—	—	23	2	4	—	16	9	8
2 392	275	6 214	750	454	31	3 742	310	2 385	258	10 319	833	8 345
778	58	613	36	10	—	457	33	198	11	924	13	837
38	12	198	17	5	—	67	13	93	20	187	17	89
46	6	124	4	—	—	223	—	94	—	322	—	256
797	153	1 882	316	221	15	833	93	437	25	1 490	143	1 245
722	46	3 378	366	218	16	2 147	171	1 563	202	7 359	652	5 918
11	—	19	11	—	—	15	—	—	—	37	8	—
235	34	898	102	41	2	221	48	160	21	285	29	207
5	—	15	8	17	—	9	—	26	6	6	—	—
81	10	172	8	—	—	70	2	26	—	61	7	29
149	24	71	86	24	2	142	46	108	15	218	22	178
986	135	2 290	445	100	42	1 183	261	1 668	235	2 767	491	2 309
14	—	78	—	—	—	34	—	28	—	153	—	59
—	—	—	—	—	—	—	—	—	—	—	—	—
21	—	—	—	—	—	9	—	11	7	17	—	4
376	81	981	291	56	32	582	187	683	157	1 765	433	1 299
33	2	141	18	6	—	58	5	34	5	204	13	422
5	—	27	16	—	—	30	30	53	—	39	14	—
537	52	1 063	120	38	10	470	39	354	13	589	31	525
—	—	—	—	—	—	—	—	—	—	—	—	—
621	140	10 114	1 468	1 456	103	1 740	149	4 745	438	10 644	763	9 138
104	6	666	95	56	—	388	15	641	38	1 141	52	869
99	6	601	88	33	—	382	15	627	38	1 117	45	826
5	—	65	7	23	—	14	—	24	7	24	43	71
28	18	59	25	—	—	6	6	31	5	62	5	20
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	5	—	—	—	—	—	10	—	13	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
28	18	54	25	—	—	6	—	21	—	49	5	20
—	—	—	—	—	—	—	—	—	—	—	—	—
410	58	8 889	1 108	1 367	91	1 150	89	3 520	300	8 467	521	7 874
20	—	705	9	79	—	237	2	57	—	808	6	1 427
390	58	8 184	1 099	1 288	91	893	87	3 463	300	7 659	515	6 447
790	58	496	238	33	12	188	39	526	95	905	178	310
5	—	122	10	13	7	148	6	421	31	717	59	134
—	—	6	—	—	—	—	—	—	—	6	—	—
52	52	136	101	2	—	25	18	50	34	144	113	70
13	6	213	114	18	5	15	15	46	30	38	—	99
—	—	19	13	—	—	—	—	5	—	—	—	—
9	—	4	2	—	—	8	—	27	—	69	7	65
—	—	4	—	—	—	8	—	27	—	57	—	48
—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Metal industries—Con.				Manufacturing, durable goods—Con.											
		Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Machinery, except electrical		Construction and material handling machines		Metalworking machinery	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con. Technical, sales, and administrative support occupations—Con. Administrative support occupations, including dental—Con. Secretaries, stenographers, and typists Information clerks Hotel clerks Transportation ticket and reservation agents Receptionists Information clerks, n.e.c. Records processing occupations, except financial Classified-ad clerks Correspondence clerks Order clerks Personnel clerks, except payroll and timekeeping Library clerks File clerks Records clerks Financial records processing occupations Bookkeepers, accounting, and auditing clerks Payroll and timekeeping clerks Billing clerks Cost and rate clerks Billing, posting, and calculating machine operators Duplicating, mail, and other office machine operators Duplicating machine operators Mail preparing and paper handling machine operators Office machine operators, n.e.c. Communications equipment operators Telephone operators Telegraphers Communications equipment operators, n.e.c. Mail and message distributing occupations Postal clerks, except mail carriers Mail carriers, postal service Mail clerks, except postal service Messengers Material recording, scheduling, and distributing clerks Dispatchers Production coordinators Traffic, shipping, and receiving clerks Stock and inventory clerks Meat readers Weights, measures, and checkers Samples Expeditors Material recording, scheduling, and distributing clerks, n.e.c. Adjusters and investigators Insurance adjusters, examiners, and investigators Investigators and adjusters, except insurance Eligibility clerks, social welfare Bill and account collectors Miscellaneous administrative support occupations General office clerks Bank tellers Proofreaders Data-entry keyers Statistical clerks Teachers' aides Administrative support occupations, n.e.c.	3 024	2 994	13 804	13 626	1 044	1 018	4 502	4 467	5 494	5 469	13 313	13 198	11 647	11 480			
		2 268	2 258	12 140	11 978	947	927	3 769	3 740	4 837	4 823	11 722	11 633	9 984	9 857		
		121	635	1 577	1 531	89	83	579	573	120	120	118	118	98	98		
		118	108	1 235	1 119	81	57	242	226	337	320	1 473	1 447	1 565	1 525		
		—	—	82	32	—	—	26	14	18	18	102	88	35	29		
		10	—	20	—	7	—	—	—	—	—	—	—	—	—		
		77	77	1 014	984	63	57	212	212	13	—	64	22	13	—		
		31	31	1 119	1 091	11	—	4	—	21	19	107	753	527	515		
		668	375	3 228	1 924	109	66	1 059	521	1 188	603	3 089	1 809	2 258	1 451		
		8	8	46	33	—	—	17	11	27	11	32	17	6	6		
		196	96	1 420	811	46	27	372	144	533	229	1 314	573	1 177	82		
		110	88	227	204	11	11	160	141	136	119	417	362	1 170	706		
		—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		342	177	1 324	770	52	28	460	202	414	187	1 153	762	25	25		
		12	6	34	38	—	—	25	11	9	9	77	67	770	504		
		1 088	907	8 382	7 263	653	405	1 680	1 170	3 345	2 755	7 068	5 595	6 522	5 704		
		552	585	5 993	5 345	536	496	984	743	2 416	2 034	4 881	4 070	4 840	4 383		
		364	263	1 365	1 091	55	55	508	294	656	507	1 125	816	980	795		
		37	31	636	545	53	49	91	79	176	150	560	442	338	323		
		19	14	341	242	4	4	82	39	70	39	400	196	291	176		
		16	14	47	44	5	5	15	15	27	25	102	51	73	27		
		35	23	212	111	5	5	61	24	44	37	123	70	177	85		
		25	19	93	51	5	5	44	13	15	15	67	36	111	111		
		10	4	94	57	—	—	17	11	23	16	56	34	52	43		
		28	23	339	323	—	—	76	66	84	78	361	340	294	289		
		28	23	331	320	—	—	76	66	78	78	339	331	294	289		
		—	—	8	8	—	—	—	—	6	—	13	7	—	—		
		141	67	409	187	41	36	192	44	289	145	490	210	399	185		
		—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		114	47	369	175	36	36	183	42	249	130	427	194	322	172		
		27	20	40	12	5	2	9	9	40	15	63	16	77	13		
		3 178	1 002	15 227	3 964	840	196	4 853	1 143	7 876	2 013	17 305	3 503	10 585	2 895		
		44	12	64	4	7	7	20	20	88	9	173	31	31	9		
		996	284	2 514	909	148	24	1 302	300	1 494	478	3 815	872	1 686	558		
		555	150	6 824	1 236	360	53	950	179	2 395	461	4 409	588	3 946	846		
		1 099	382	4 425	1 312	221	91	2 041	523	3 106	753	6 965	1 476	3 703	1 062		
		—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		100	54	301	79	59	17	53	13	146	39	201	46	130	55		
		—	—	—	—	2	2	6	6	9	7	6	—	16	14		
		339	92	1 002	360	29	5	453	104	596	237	1 610	411	972	314		
		45	28	95	64	14	1	28	11	62	29	126	79	71	37		
		122	32	537	274	23	5	338	83	301	118	731	173	393	211		
		108	18	483	231	13	5	314	69	290	112	671	127	315	147		
		14	14	54	43	10	—	24	14	11	6	60	46	15	15		
		1 886	1 498	6 484	4 965	341	241	1 495	866	3 721	2 824	8 016	5 572	5 272	4 256		
		1 158	995	4 013	3 204	286	197	1 197	866	1 720	1 335	4 111	2 847	3 173	2 678		
		—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		9	9	41	13	—	—	—	—	2	2	—	—	—	—		
		403	383	1 420	1 354	44	44	600	545	1 060	1 024	2 107	2 003	17	9		
		109	57	254	145	11	5	135	104	207	172	455	214	1 287	234		
		6	6	2	—	—	—	—	—	—	—	—	—	—	—		
		201	48	754	249	27	6	487	180	732	291	1 343	444	581	212		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.												
Metal industries—Con.				Machinery, except electrical								
Ordnance	Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines		Metalworking machinery	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	3 208	490	8 845	1 021	684	93	3 022	548	4 433	937	7 243	1 229
Private household occupations	1 550	99	1 346	72	82	6	703	62	934	76	1 483	81
Protective service occupations	104	—	45	—	7	—	48	—	14	—	85	—
Supervisors, protective service occupations	3	—	5	—	—	—	7	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	101	—	40	—	7	—	41	—	14	—	85	—
Supervisors, police and detectives	237	12	11	—	—	—	17	—	20	—	82	—
Supervisors, guards	64	6	11	—	—	—	10	—	12	—	70	—
Firefighting and fire prevention occupations	173	6	—	—	—	—	7	—	8	—	12	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	1 209	87	1 290	72	75	6	638	62	900	76	1 316	73
Guards	—	—	—	—	—	—	—	—	—	—	—	—
Crossing guards	1 201	87	1 276	72	75	6	625	62	900	76	1 316	73
Guards and police, except public service	8	—	14	—	—	—	6	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	1 658	391	7 499	949	602	87	2 319	506	3 499	861	5 760	1 148
Food preparation and service occupations	123	94	190	100	10	—	111	93	131	119	318	222
Supervisors, food preparation and service occupations	—	—	4	—	—	—	9	—	—	—	10	—
Barbers	9	9	23	10	—	—	19	—	—	—	—	—
Waiters and waitresses	21	19	64	27	—	—	30	30	16	11	27	18
Cooks, except short order	—	—	4	—	—	—	5	—	6	—	110	50
Short-order cooks	3	3	13	8	2	—	8	—	—	—	7	—
Food counter, fountain and related occupations	5	5	—	—	—	—	8	—	—	—	—	—
Kitchen workers, food preparation	27	10	27	23	—	—	6	8	—	—	—	—
Waiters and waitresses, assistants	58	48	55	28	8	—	34	34	52	45	62	56
Miscellaneous food preparation occupations	36	32	21	21	8	8	51	39	19	12	104	44
Health service occupations	—	—	—	—	—	—	5	—	7	—	6	—
Dental assistants	16	12	—	—	—	—	—	—	—	—	—	—
Health aides, except nursing	20	20	21	21	8	8	46	34	6	6	12	—
Nursing aides, orderlies, and attendants	1 471	241	7 237	821	578	79	2 131	365	3 954	702	5 292	810
Cleaning and building service occupations, except household	19	—	124	8	—	—	14	—	35	—	52	—
Supervisors, cleaning and building service workers	66	9	304	62	31	—	132	33	193	51	218	95
Maid and housemen	1 379	232	6 799	751	347	77	1 935	332	2 979	646	4 842	697
Janitors and cleaners	—	—	10	—	—	—	—	—	42	—	83	12
Elevator operators	—	—	—	—	—	—	—	—	—	—	—	—
Pest control occupations	7	—	—	—	—	—	—	—	7	—	—	—
Personal service occupations	28	24	51	7	6	—	26	9	95	28	136	72
Supervisors, personal service occupations	—	—	—	—	—	—	—	—	—	—	26	—
Barbers	2	—	—	—	—	—	—	—	5	5	—	—
Hairdressers and cosmetologists	—	—	—	—	—	—	—	—	—	—	—	—
Attendants, amusement and recreation facilities	—	—	6	—	6	—	9	—	—	—	—	—
Guides	—	—	25	—	—	—	6	—	50	8	35	12
Ushers	9	7	—	—	—	—	—	—	5	—	7	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	5	—	—	—	—	—	—	—	—	—
Waiters, service aides	—	—	—	—	—	—	—	—	12	—	—	—
Child care workers, except private household	17	17	15	7	—	—	11	9	23	15	66	60
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	48	12	165	16	44	—	69	—	207	38	106	2
Farm operators and managers	—	—	—	—	—	—	—	—	8	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—	—	—	—
Related agricultural occupations	47	12	89	8	18	—	39	—	188	35	85	2
Supervisors, related agricultural occupations	2	2	—	—	—	—	—	—	7	—	—	—
Groundskeepers and gardeners, except farm	45	10	74	8	18	—	32	—	171	25	75	2
Animal caretakers, except farm	—	—	15	—	—	—	7	—	10	10	—	—
Graders and sowers, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States															
Employed persons 16 years and over—Con.															
Manufacturing, durable goods—Con.															
Metal industries—Con.				Machinery, except electrical											
Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines		Metallworking machinery			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
14	—	70	8	5	—	13	—	11	3	10	—	124	61		
6	—	48	8	—	—	13	—	11	3	8	—	—	—		
8	—	22	—	5	—	17	—	—	—	2	—	124	61		
7	—	6	—	21	—	17	—	—	—	11	—	—	—		
—	—	—	—	8	—	5	—	—	—	—	—	—	—		
7	—	6	—	13	—	12	—	—	—	11	—	—	—		
18 612	1 374	83 938	4 602	5 485	179	28 619	1 444	34 624	1 369	81 958	2 239	115 469	4 300		
4 801	173	19 640	397	723	17	8 097	332	10 704	284	21 034	300	11 385	403		
114	—	459	9	17	—	184	—	183	9	446	—	105	—		
4 957	173	19 201	378	706	17	7 913	352	10 521	275	20 588	302	11 280	403		
193	3	1 173	18	47	6	2 180	153	3 891	93	5 641	30	566	37		
24	3	577	13	59	—	791	95	1 950	7	1 267	24	230	15		
12	—	101	—	2	—	520	—	1 053	5	454	—	25	—		
34	—	53	5	—	—	38	—	142	9	7	—	136	—		
6	—	102	—	6	—	626	44	39	—	83	—	19	—		
59	—	233	—	—	—	26	—	11	—	—	—	—	—		
—	—	298	—	—	—	11	—	14	—	5	—	12	—		
1 752	13	9 388	126	264	—	137	14	286	6	3 240	32	18	—		
48	2	402	15	17	—	31	—	1 572	66	356	21	18	—		
217	3	496	6	13	—	152	40	2 592	36	4 739	18	4 103	77		
169	3	257	—	4	—	256	31	176	3	341	15	144	7		
17	—	80	6	—	—	84	6	69	—	182	5	129	69		
4	—	66	—	—	—	19	—	39	—	51	7	87	4		
16	—	5	—	9	—	13	5	14	—	13	—	48	9		
—	—	50	—	—	—	2	—	10	—	30	—	45	—		
11	—	38	—	—	—	138	20	44	3	156	24	125	56		
74	—	404	27	19	—	124	—	122	2	149	7	93	10		
2 251	152	7 338	186	346	11	3 378	128	3 574	121	9 280	142	5 940	203		
14	—	113	22	9	—	13	—	36	4	86	—	2	—		
17	—	232	6	—	—	—	—	—	—	—	—	2	—		
12	—	4	4	—	—	—	—	—	—	—	—	4	—		
15	—	111	9	—	—	—	—	7	—	11	—	12	—		
506	16	23	—	—	—	24	—	15	—	82	8	45	—		
1 327	108	1 624	30	61	—	34	26	2	—	2 255	26	5	—		
360	28	2 245	82	114	—	807	82	1 228	85	2 185	71	3 306	64		
—	—	2 986	33	162	11	1 795	20	1 085	21	2 612	18	1 435	97		
1 999	58	8 328	286	501	13	2 541	50	2 973	75	8 280	162	1 131	36		
122	—	257	—	10	—	61	—	79	4	472	—	4 458	135		
8	—	16	—	—	—	—	—	—	—	—	—	214	—		
68	—	11	—	—	—	25	—	2	—	14	—	—	—		
—	—	74	—	—	—	31	—	31	4	131	—	103	—		
5	—	2	—	—	—	—	—	2	—	5	—	9	—		
41	—	42	—	—	—	36	—	42	—	322	—	73	—		
—	—	112	—	10	—	—	—	—	—	—	—	—	—		
1 877	58	8 071	286	491	13	2 480	50	2 894	71	7 808	162	4 244	135		
11	—	392	45	31	—	12	—	29	—	34	—	46	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
328	—	691	3	58	—	131	—	—	—	—	—	—	—		
—	—	18	—	—	—	—	—	252	2	668	—	396	6		
861	38	3 101	47	116	—	1 341	15	1 188	33	4 053	61	2 708	81		
183	16	986	72	71	—	223	20	856	34	1 092	53	208	31		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Manufacturing, durable goods—Con.									
		Metal industries—Con.				Machinery, except electrical					
		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Construction trades—Con.											
Construction trades, except supervisors—Con.											
Painters, paperhangers, and signwriters	425	4	3	74	—	702	7	338	2	1 160	14
Concrete and masonry finishers	9	—	—	—	—	—	—	5	—	—	—
Glaziers	22	—	—	—	—	8	8	18	—	49	9
Insulation workers	—	—	—	—	—	—	—	—	—	5	—
Painting, varnishing, and tamping equipment operators	6	—	—	—	—	—	—	—	—	6	—
Shapers	10	—	—	—	—	8	—	16	—	22	—
Structural steel erectors	6	—	—	—	—	41	—	85	—	399	—
Structural metal workers	6	—	—	—	—	10	—	38	—	104	—
Drillers, earth	11	—	—	—	—	4	—	33	—	137	—
Construction trades, n.e.c.	53	—	—	—	—	15	—	20	—	325	—
Extrusive occupations	—	—	—	—	—	5	—	—	—	96	—
Supervisors, extractive occupations	—	—	—	—	—	—	—	31	—	6	—
Drillers, oil well	43	—	—	—	—	10	—	20	—	108	—
Explosives workers	3	—	—	—	—	—	—	—	—	60	—
Mining machine operators	7	—	—	—	—	—	—	—	—	13	—
Mining occupations, n.e.c.	—	—	—	—	—	—	—	—	—	20	—
Precision production occupations	11 759	1 142	3 915	4 256	149	17 965	1 042	20 927	1 010	52 319	1 754
Supervisors, precision production occupations	5 148	483	1 781	59	—	7 020	324	10 511	611	22 771	714
Precision metalworking occupations	5 191	262	1 199	2 221	77	9 000	492	8 972	327	26 698	743
Tool and die makers	1 117	16	92	342	9	1 588	17	2 289	12	2 736	54
Precision assemblers, metal	34	—	—	—	—	830	115	111	9	340	3
Mechanists	3 446	188	670	1 275	43	5 498	324	5 427	262	20 609	540
Boilermakers	37	—	—	—	—	16	—	10	—	110	—
Precision grinders, filers, and tool sharpeners	172	19	514	13	—	426	11	384	31	1 167	65
Pottermakers and model makers, metal	87	—	—	—	—	145	—	146	6	299	13
Low-out workers	15	—	—	—	—	69	—	60	—	353	—
Precious stones and metals workers (jewelers)	8	—	—	—	—	32	—	8	—	64	—
Engravers, metal	33	10	100	27	—	9	—	—	—	12	—
Sheet metal workers	231	7	242	507	25	364	—	506	2	953	16
Miscellaneous precision metal workers	11	6	16	6	—	23	14	31	—	55	2
Precision woodworking occupations	177	33	20	11	—	47	—	35	2	79	—
Pottermakers and model makers, wood	—	—	—	—	—	25	—	21	—	47	—
Carpet makers and finishers	—	—	—	—	—	—	—	—	—	—	—
Furniture makers and finishers	19	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	158	33	8	—	—	20	—	12	2	16	—
Precision textile, apparel, and furnishings machine workers	34	15	93	8	—	15	—	13	4	45	8
Dressmakers	15	—	—	—	—	—	—	—	—	17	—
Tailors	—	—	—	—	—	—	—	—	—	—	—
Upholsterers	17	17	31	—	—	—	—	8	—	5	—
Shoe repairers	2	2	6	—	—	9	—	3	3	23	—
Apparel and fabric patternmakers	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	—	—	—	—	—
Precision workers, assorted materials	428	239	430	108	9	514	129	679	55	1 098	181
Patternmakers, except jewelry	2	—	—	—	—	—	—	236	12	289	8
Patternmakers, lay-out workers, and cutters	—	—	—	—	—	—	—	38	—	43	—
Optical goods workers	14	14	17	13	—	46	5	—	—	10	—
Dental laboratory and medical appliance technicians	—	—	—	—	—	7	—	—	—	—	—
Bookbinders	6	6	7	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	243	173	231	8	—	116	85	11	—	316	144
Miscellaneous precision workers, n.e.c.	143	46	66	28	—	242	39	394	43	436	29
Precision food production occupations	—	—	—	—	—	—	—	—	—	—	—
Butchers and meat cutters	—	—	—	—	—	24	—	33	—	49	—
Bakers	—	—	—	—	—	6	—	33	—	38	—
Food batchmakers	—	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers	424	79	392	7	—	625	53	315	8	743	66
Inspectors, testers, and graders	495	79	332	7	—	617	53	310	8	743	66
Adjusters and calibrators	9	—	—	—	—	8	—	5	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

Manufacturing, durable goods—Con.

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Precision production occupations—Con.

Precision production occupations—Con.

Precision production occupations—Con.

Precision production occupations—Con.

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Precision production occupations—Con.

Precision production occupations—Con.

Metal industries—Con.

Machinery, except electrical

Ordnance

Not specified metal industries

Engines and turbines

Form machinery and equipment

Construction and material handling machines

Metalworking machinery

Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
347	12	807	57	41	2	721	44	349	3	836	41	569	32				
41	13	30	—	—	—	17	—	21	—	13	—	12	—				
16	—	13	—	—	—	11	—	22	—	23	—	15	—				
243	12	713	49	41	2	681	44	317	3	759	41	542	32				
47	—	51	8	—	—	12	—	9	—	41	—	—	—				
33 475	11 504	220 371	54 153	16 661	2 477	60 311	11 706	95 150	13 213	152 144	10 955	139 934	28 096				
28 278	10 303	175 220	45 024	13 452	2 116	51 821	10 730	76 230	11 105	123 564	8 529	125 067	25 452				
14 569	3 841	113 861	32 166	8 431	1 1	26 839	4 273	32 455	4 057	53 742	3 972	92 584	14 820				
3 767	604	32 439	5 888	2 495	568	12 551	1 1	13 547	1 1	22 014	1 527	47 488	5 898				
151	—	3 784	223	209	13	1 301	27	1 364	60	859	107	2 630	100				
652	86	4 082	305	276	33	2 164	105	2 288	99	6 002	200	9 043	478				
423	47	343	43	42	—	625	62	265	20	839	12	2 482	107				
228	81	8 084	3 034	985	371	917	340	3 954	701	2 616	202	4 267	1 425				
8	2	935	—	28	—	39	—	79	28	20	—	107	33				
402	92	2 208	479	105	39	2 035	203	1 963	314	4 322	315	5 066	688				
1 712	248	12 019	1 397	923	110	4 676	646	2 973	230	6 270	777	21 539	2 677				
45	12	356	56	42	—	75	22	194	13	284	—	727	44				
62	7	58	—	37	—	42	2	14	—	95	—	323	14				
86	29	770	124	28	2	660	25	453	17	607	11	1 304	177				
103	32	2 895	528	223	21	196	79	253	56	303	37	384	159				
854	142	15 360	1 286	498	54	1 126	118	1 292	64	2 270	91	7 497	513				
107	107	2 146	449	201	26	615	76	591	59	601	52	5 768	394				
163	13	1 332	733	55	17	117	14	129	20	257	20	406	51				
138	13	791	54	71	—	268	10	440	5	1 068	8	1 075	40				
92	17	913	50	131	11	126	18	132	—	344	11	248	67				
118	9	580	100	84	15	94	14	378	54	648	30	587	72				
2	—	50	—	—	—	—	—	8	—	13	—	5	—				
44	9	371	53	53	10	86	14	259	26	557	30	422	39				
—	—	111	36	22	2	2	—	41	10	9	—	105	28				
72	—	37	—	9	5	6	—	12	2	—	—	—	—				
117	42	1 790	238	30	9	170	66	259	100	279	107	238	67				
100	32	1 176	151	28	7	122	43	202	70	205	70	196	54				
7	10	316	29	2	—	18	—	15	6	—	—	—	5				
10	10	148	17	2	2	14	14	27	21	16	14	15	8				
155	104	158	41	39	12	14	11	15	3	53	18	21	5				
2	2	37	13	9	—	15	9	208	169	256	89	218	106				
—	—	95	25	—	—	2	—	18	7	—	—	16	—				
—	—	26	14	—	—	—	—	2	—	17	7	—	—				
107	88	391	268	20	7	11	2	172	153	161	82	113	82				
7	2	16	7	—	—	—	—	—	—	7	—	—	—				
31	12	18	—	—	—	—	—	8	2	—	—	—	—				
14	—	185	52	10	5	12	—	8	—	52	—	71	24				
9 435	2 908	59 981	14 741	5 062	712	12 662	2 553	16 518	2 132	27 972	2 091	36 172	8 005				
28	17	307	100	14	—	95	—	21	—	103	—	64	2				
89	61	862	446	7	—	64	23	78	15	67	23	127	29				
29	13	291	27	12	—	36	—	31	—	108	—	130	52				
136	27	821	42	34	—	61	—	135	14	298	12	265	52				
77	9	192	25	27	—	14	13	25	—	74	14	78	—				
39	19	278	38	9	—	4	—	52	—	34	—	148	51				
296	41	5 045	851	183	10	501	101	2 172	194	2 813	132	1 276	156				
14	—	175	22	3	—	105	—	129	15	77	6	119	8				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

United States

Manufacturing, durable goods—Con.

Machinery, except electrical

Metal industries—Con.

Ordnance

Miscellaneous fabricated metal products

Not specified metal industries

Engines and turbines

Farm machinery and equipment

Construction and material handling machines

Metalworking machinery

Employed persons 16 years and over—Con.
Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assemblers, and inspectors—Con.
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Machine operators, assemblers

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States													
Employed persons 16 years and over—Con.													
Operators, fabricators, and laborers—Con.													
Handlers, equipment cleaners, helpers, and laborers													
Supervisors: handlers, equipment cleaners, and laborers, n.e.c.													
Helpers, mechanics and repairers													
Helpers, construction and extractive occupations													
Helpers, construction trades													
Helpers, surveyor													
Helpers, extractive occupations													
Construction laborers													
Freight, stock, and material handlers													
Garbage collectors													
Stereotypers													
Stock handlers and bidders													
Machine feeders and offbearers													
Freight, stock, and material handlers, n.e.c.													
Garage and service station related occupations													
Vehicle washers and equipment cleaners													
Hand packers and packagers													
Laborers, except construction													
Manufacturing, durable goods—Con.													
Metal industries—Con.					Machinery, except electrical								
Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		(Construction and material handling machines)		Metallworking machinery	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
2 642	770	26 612	8 088	1 766	281	3 964	734	8 594	1 417	12 329	1 493	8 785	2 334
6	—	32	6	—	—	9	—	23	—	—	—	43	—
10	5	59	—	19	8	22	—	57	—	225	7	72	—
25	—	100	—	19	8	19	—	28	—	88	—	72	—
25	—	100	—	—	—	—	—	28	—	88	—	22	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
56	4	203	2	10	—	57	—	143	2	253	13	83	11
157	30	1 514	195	84	3	203	14	302	18	1 409	188	784	32
400	97	4 731	1 475	203	12	537	85	1 671	168	1 782	79	866	191
—	—	8	2	—	—	—	—	14	2	5	—	12	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
95	31	595	163	36	9	213	28	328	80	325	34	307	55
67	17	2 126	1 106	20	3	84	21	121	36	154	13	210	77
238	49	2 002	204	147	—	240	36	1 208	50	1 268	32	337	59
—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	10	32	8	—	—	9	—	25	—	42	15	7	—
97	35	696	163	67	5	366	77	285	45	503	113	718	74
610	266	4 978	2 909	255	144	923	297	1 245	449	1 474	397	2 286	1 330
1 266	—	14 267	3 330	1 128	109	1 819	261	4 815	735	6 553	741	3 904	896

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Office and accounting machines	Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over	100 281	35 273	428 916	147 436	1 120 004	219 592	38 577	6 080	185 118	67 950	591 251	250 323	1 256 545	544 944
Managerial and professional specialty occupations	23 985	3 583	147 705	22 609	149 407	16 923	5 756	590	19 115	2 399	133 085	18 629	222 919	32 571
Executive, administrative, and managerial occupations	12 740	2 483	66 683	12 948	99 285	13 503	3 916	484	11 694	1 550	58 936	11 291	114 679	21 782
Legislators, chief executives, and general administrators; public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Local	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Administrators, protective services	635	108	2 929	425	3 609	611	123	41	606	53	2 477	367	4 821	756
Financial managers	491	118	2 418	664	2 700	555	56	14	332	57	1 958	539	4 108	1 129
Personal and labor relations managers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Purchasing managers	211	85	1 015	237	1 359	106	43	-	164	-	1 253	140	2 009	248
Managers, marketing, advertising, and public relations	1 621	167	6 587	632	11 000	599	434	28	1 626	179	5 154	492	12 340	1 328
Administrators, education and related fields	12	4	53	9	46	-	8	-	-	-	40	7	80	5
Managers, medicine and health	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Managers, properties and real estate	20	-	78	7	30	6	-	-	2	-	57	20	122	23
Postmasters and mail superintendents	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Funeral directors	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Managers and administrators, n.e.c.	6 354	931	36 579	4 898	59 461	5 395	2 623	213	5 877	486	30 438	3 749	61 581	7 119
Solomon	6 280	912	36 450	4 877	54 346	4 986	2 374	198	5 760	479	30 048	3 711	60 339	6 945
Self-employed	74	19	129	21	515	15	249	15	117	7	390	38	1 242	174
Management related occupations	3 396	1 070	17 024	6 086	21 059	6 223	624	188	3 087	775	17 542	5 975	29 404	11 174
Accountants and auditors	1 512	523	8 442	3 187	9 107	3 216	251	80	1 416	420	8 060	2 958	12 882	4 828
Underwriters	-	-	-	-	5	-	-	-	-	-	-	-	-	10
Other financial officers	144	23	648	182	883	278	25	-	138	31	878	249	1 157	372
Management analysts	123	21	882	165	467	74	10	-	51	7	592	88	810	167
Personnel, training, and labor relations specialists	709	261	3 021	1 281	2 927	803	85	31	559	154	3 397	1 267	5 943	2 798
Purchasing agents and buyers, farm products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buyers, wholesale and retail trade except farm products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Purchasing agents and buyers, n.e.c.	766	203	3 597	1 194	7 459	1 832	253	77	913	163	4 157	1 312	8 199	2 829
Business and promotion agents	10	-	50	7	28	-	-	-	-	-	136	31	44	8
Construction inspectors	12	-	10	17	8	13	-	-	-	-	15	-	55	89
Inspectors and compliance officers, except construction	-	-	63	53	111	7	-	-	10	-	99	30	301	89
Management related occupations, n.e.c.	120	39	311	-	64	-	-	-	-	-	208	40	194	53
Professional specialty occupations	11 245	1 100	81 022	9 661	50 122	3 420	1 840	106	7 421	849	74 149	7 338	108 240	10 789
Engineers, architects, and surveyors	7 182	230	41 126	1 906	39 582	1 277	1 428	42	5 392	235	54 341	2 397	84 155	4 632
Architects	-	-	156	3	36	-	-	-	-	-	17	5	51	15
Engineers	7 182	230	40 962	1 903	39 550	1 277	1 428	42	5 386	235	54 315	2 392	84 093	4 632
Aerospace engineers	9	-	157	10	69	-	-	-	-	-	69	5	525	22
Metallurgical and materials engineers	26	-	87	6	62	36	-	-	25	-	198	5	563	26
Mining engineers	-	-	5	-	19	9	-	-	-	-	6	-	1	1
Petroleum engineers	-	-	-	-	36	-	-	-	-	-	13	-	17	1
Chemical engineers	57	-	207	16	335	6	15	-	59	-	296	25	845	79
Nuclear engineers	-	-	14	21	70	-	-	-	-	-	56	-	126	-
Civil engineers	34	-	182	35	418	14	5	-	41	-	288	18	318	27
Agricultural engineers	-	-	-	-	123	-	-	-	2	-	14	-	6	-
Electrical and electronic engineers	2 630	71	14 879	463	2 383	41	98	-	2 176	38	36 035	1 184	52 441	1 933
Industrial engineers	1 296	84	8 250	880	9 197	746	193	21	1 962	161	8 161	808	15 833	1 803
Mechanical engineers	2 588	50	13 042	342	22 348	358	1 041	21	1 962	19	4 099	128	5 657	123
Marine engineers and naval architects	-	-	97	-	27	-	-	-	6	-	-	-	19	-
Engineers, n.e.c.	542	25	4 104	165	3 883	67	76	-	441	17	4 510	219	7 742	612
Surveyors and mapping scientists	-	-	8	-	6	-	-	-	6	-	9	-	11	-
Mathematical and computer scientists	1 614	232	24 251	3 768	2 139	312	109	25	489	103	6 690	1 403	6 492	1 321
Computer systems analysts and scientists	1 118	130	22 129	3 296	1 159	181	47	7	287	49	3 950	708	4 256	774
Operations and systems researchers and analysts	462	96	1 793	418	880	111	42	18	147	31	2 325	543	1 892	358
Acharies	-	-	-	-	6	-	-	-	-	-	-	-	-	-
Statisticians	34	6	194	45	94	20	-	-	53	23	331	135	279	174
Mathematical scientists, n.e.c.	-	-	129	9	-	-	-	-	2	-	72	17	49	7

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, durable goods—Con.					
	Machinery, except electrical—Con.			Electrical machinery, equipment, and supplies		
	Office and accounting machines		Machinery, except electrical, n.e.c.		Not specified machinery	
	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.						
Managerial and professional specialty occupations—Con.						
Professional specialty occupations—Con.						
Natural scientists	196	39	818	155	26	—
Physicists and astronomers	19	7	203	14	—	—
Chemists, except biochemists	158	26	469	77	7	—
Astronomers and geodesists	—	—	51	18	—	—
Geologists and geodesists	—	—	6	6	—	—
Physical scientists, n.e.c.	—	—	7	—	—	—
Agricultural and food scientists	—	—	66	40	13	—
Biological and life scientists	6	6	—	—	6	—
Forestry and conservation scientists	13	—	16	—	—	—
Medical scientists	5	—	30	5	16	—
Health diagnosing occupations	5	—	30	5	16	—
Physicians	—	—	30	5	16	—
Dentists	—	—	—	—	—	—
Veterinarians	—	—	—	—	—	—
Optometrists	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—
Health assessment and treating occupations	74	74	377	364	146	146
Registered nurses	74	74	362	356	138	138
Pharmacists	—	—	5	—	8	—
Dietitians	—	—	10	8	—	—
Therapists	—	—	—	—	—	—
Physicians' assistants	—	—	—	—	—	—
Teachers, postsecondary	13	—	49	6	—	—
Teachers, except postsecondary	272	72	1 987	304	26	—
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—
Teachers, n.e.c.	—	—	—	—	—	—
Counselors, educational and vocational	272	72	1 983	304	26	—
Librarians, archivists, and curators	39	18	182	44	8	—
Librarians	26	18	424	331	—	—
Archivists and curators	13	—	—	—	—	—
Social scientists and urban planners	444	154	3 161	721	14	14
Economists	438	154	3 060	704	14	14
Psychologists	—	—	82	17	—	—
Sociologists	—	—	6	—	—	—
Social scientists, n.e.c.	—	—	13	—	—	—
Urban planners	6	—	—	—	—	—
Social, recreation, and religious workers	14	—	43	30	7	—
Social workers	—	—	37	30	—	—
Recreation workers	—	—	6	—	—	—
Clergy	—	—	—	—	—	—
Religious workers, n.e.c.	—	—	—	—	—	—
Lawyers and judges	137	26	560	78	7	—
Lawyers	137	26	560	78	7	—
Judges	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	1 236	255	8 014	1 949	207	20
Authors	10	—	67	27	—	—
Technical writers	373	88	2 613	723	5	5
Designers	585	43	3 379	355	182	32
Musicians and composers	—	—	24	17	—	—
Actors and directors	—	—	61	34	—	—
Painters, sculptors, craft-artists, and artist printmakers	87	31	384	162	4	—
Photographers	—	—	—	—	—	—
Dancers	20	—	183	36	36	21
Artists, performers, and related workers, n.e.c.	—	—	—	—	—	—
Editors and reporters	75	39	28	22	14	7
Public relations specialists	86	54	500	294	41	21
Announcers	—	—	755	279	125	36
Athletes	—	—	8	—	—	—
	—	—	12	—	—	—
Electrical machinery, equipment, and supplies						
Household appliances						
Radio, TV, and communication equipment						
Electrical machinery, equipment, and supplies, n.e.c.						

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Manufacturing, durable goods—Con.														
Machinery, except electrical—Con.														
Electrical machinery, equipment, and supplies														
Office and accounting machines			Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
30 026	14 609		147 281	63 906	199 103	97 427	7 048	2 899	27 054	14 349	146 743	75 490	266 782	137 251
6 626	1 046		57 845	9 661	30 482	3 335	1 182	130	3 377	483	43 956	7 200	74 078	14 975
34	3		156	44	103	103	2	—	32	21	38	21	101	47
6	—		44	5	8	8	2	—	5	—	7	—	14	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
8	3		27	27	105	85	—	—	—	—	9	7	15	7
20	—		79	12	36	10	—	—	21	21	14	14	33	13
—	—		—	—	—	—	—	—	6	—	63	7	88	25
—	—		—	—	—	—	—	—	—	—	—	—	150	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
3 487	410		27 724	3 473	22 299	1 941	899	76	2 424	214	33 516	4 552	59 301	10 780
1 964	177		20 063	1 993	2 367	1 771	183	14	1 156	90	23 234	2 724	40 236	7 165
34	—		86	37	329	51	—	—	36	16	178	97	413	108
230	45		631	51	668	112	60	—	38	45	341	22	613	89
400	83		2 807	667	4 645	566	112	24	230	45	2 807	640	4 041	1 392
859	105		4 100	717	14 273	1 141	544	38	904	63	6 927	1 090	13 919	2 065
—	—		37	8	17	—	—	—	—	—	27	7	79	11
—	—		—	—	—	—	—	—	—	—	—	—	—	—
206	57		934	274	1 113	167	35	13	212	50	1 246	351	3 031	1 253
11	—		37	15	71	8	—	—	—	—	6	—	62	45
46	22		146	44	283	51	2	—	24	—	166	24	740	221
149	35		751	215	759	108	33	13	188	50	1 074	327	2 229	987
2 899	576		29 031	5 870	7 116	1 124	246	41	709	198	9 056	2 248	11 345	2 783
12	—		78	14	207	—	2	—	21	2	82	—	172	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
8	6		31	16	15	—	7	—	13	—	306	102	90	21
1 670	467		22 702	4 994	3 637	773	122	31	504	157	5 948	1 575	7 804	2 069
54	9		123	37	795	80	23	—	25	5	211	41	291	71
25	5		51	38	62	38	6	6	13	6	131	100	83	64
1 130	89		6 046	771	2 400	233	86	4	133	28	2 378	430	2 905	558
4 827	867		13 833	2 835	28 316	2 532	1 563	79	3 446	788	8 878	1 928	24 614	4 117
683	19		1 439	161	3 000	206	125	5	420	52	1 161	178	2 416	286
666	19		1 433	161	2 820	202	125	5	420	52	1 146	178	2 332	280
17	—		6	—	180	4	—	—	—	—	15	—	84	6
7	7		101	44	212	84	6	—	39	25	91	28	210	71
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
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—	—		—	—	—	—	—	—	—	—	—	—	—	—
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—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
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—	—		—	—	—	—	—	—	—	—	—	—	—	—
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—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—									

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States				Machinery, except electrical—Con.				Manufacturing, durable goods—Con.				Electrical machinery, equipment, and supplies			
	Office and accounting machines		Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Administrative support occupations, including clerical—Con.																
Secretaries	5 232	5 117	21 924	21 751	38 287	37 941	1 258	1 250	4 825	4 773	24 961	24 777	43 295	42 913		
Stenographers	4 591	4 505	20 079	19 925	33 256	33 624	1 156	1 148	4 215	4 171	21 505	21 345	38 118	37 814		
Typists	33	27	65	43	356	250	6	6	47	47	201	193	297	284		
Information clerks	608	585	1 790	1 762	4 129	4 067	96	96	563	555	3 255	3 239	4 880	4 815		
Information clerks	329	296	1 251	1 188	2 945	2 732	92	84	369	337	1 488	1 281	3 123	2 913		
Hotel clerks	57	45	69	61	258	211	20	20	86	74	1 488	1 488	374	288		
Transportation ticket and reservation agents	2	—	41	24	42	—	—	—	—	—	—	—	—	—		
Receptionists	232	221	1 011	92	2 382	2 312	72	64	245	231	935	915	2 474	2 429		
Information clerks, n.e.c.	38	30	114	92	259	195	—	—	38	32	259	157	236	147		
Records processing occupations, except financial	1 113	767	3 495	2 377	7 011	4 107	156	84	1 210	742	6 164	4 422	10 173	7 314		
Classified-ad clerks	9	11	41	25	89	57	—	—	23	12	27	21	85	85		
Order clerks	474	293	1 237	668	3 571	1 781	5	5	57	57	165	131	384	298		
Personnel clerks, except payroll and timekeeping	127	122	402	367	503	431	90	36	529	280	2 511	1 679	3 783	2 501		
Library clerks	18	18	89	71	20	14	8	8	74	52	431	412	925	846		
File clerks	414	282	1 515	1 085	2 657	1 512	48	35	469	300	2 591	1 806	4 689	3 351		
Records clerks	55	41	181	131	224	162	—	—	58	41	340	289	244	186		
Financial records processing occupations	1 787	1 472	5 361	4 382	19 939	17 261	620	534	2 237	1 855	8 347	7 081	18 668	16 259		
Bookkeepers, accounting, and auditing clerks	1 219	1 037	4 366	3 564	15 034	13 593	580	502	1 432	1 237	5 969	5 151	13 379	11 879		
Payroll and timekeeping clerks	254	168	623	369	2 620	1 925	21	16	567	429	1 125	1 045	2 824	2 418		
Billing clerks	242	206	373	349	1 294	1 169	0	0	131	128	789	609	1 333	1 261		
Cost and rate clerks	35	29	144	57	668	448	9	6	63	32	331	167	863	479		
Billing, posting, and calculating machine operators	37	32	55	43	323	162	—	—	44	29	133	109	269	222		
Duplicating, mail, and other office machine operators	213	150	220	142	430	238	11	3	91	76	667	524	506	354		
Duplicating machine operators	61	40	123	97	197	127	3	3	23	12	413	323	231	154		
Mail preparing and paper handling machine operators	16	16	16	16	40	21	—	—	6	6	40	40	59	27		
Mail preparing and paper handling machine operators, n.e.c.	136	94	92	45	193	125	8	3	62	58	214	161	216	173		
Communications equipment operators	133	133	421	376	967	888	13	13	120	113	1 522	1 333	1 203	1 089		
Telephone operators	125	125	388	352	940	888	6	6	113	113	1 451	1 301	1 172	1 079		
Telegraphers	8	8	18	6	20	16	7	7	7	7	40	13	25	10		
Communications equipment operators, n.e.c.	—	—	20	6	7	—	—	—	—	—	31	19	6	—		
Mail and message distributing occupations	229	116	665	381	1 005	599	32	—	279	152	1 026	538	1 490	699		
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Mail carriers, postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Mail carriers, except postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Messengers	217	110	588	343	761	477	15	—	248	140	858	479	1 233	650		
Material recording, scheduling, and distributing clerks	12	6	77	38	244	122	17	—	31	12	168	59	257	49		
Dispatchers	4 157	1 323	16 131	5 873	38 990	9 656	1 107	198	5 382	1 539	21 571	8 858	46 204	18 035		
Production coordinators	66	58	126	95	248	42	—	—	48	6	170	74	270	156		
Traffic, shipping, and receiving clerks	1 128	438	5 361	2 008	6 706	2 181	150	64	972	362	5 924	2 656	11 956	5 464		
Stock and inventory clerks	1 035	258	3 467	776	13 422	2 259	473	38	1 754	462	5 039	1 306	14 094	5 805		
Meter readers	1 341	424	5 001	2 061	14 488	3 910	356	65	2 002	509	7 140	3 097	14 448	5 960		
Weighters, measurers, and checkers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Samplers	148	20	58	19	387	68	47	6	75	24	216	90	615	270		
Expeditors	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Material recording, scheduling, and distributing clerks, n.e.c.	423	115	1 901	825	3 530	1 055	52	22	487	136	2 820	1 490	4 395	2 131		
Adjusters and investigators	16	10	197	77	198	141	29	5	44	20	253	142	395	236		
Insurance adjusters, examiners, and investigators	483	306	1 267	566	1 701	718	62	6	366	242	1 343	690	2 108	1 395		
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Eligibility clerks, social welfare	372	240	1 091	455	1 434	574	62	6	277	177	1 167	578	1 795	1 187		
Bill and account collectors	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Miscellaneous administrative support occupations	111	66	156	111	233	122	—	—	89	65	176	112	308	203		
General office clerks	2 988	2 268	12 789	9 319	16 218	12 504	607	444	2 998	2 488	16 446	12 779	23 585	19 273		
Book binders	1 504	1 208	5 446	4 257	9 276	7 462	415	317	1 671	1 476	8 015	6 588	13 191	11 298		
Proofreaders	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Date-entry keyers	47	47	55	43	80	65	—	—	14	14	71	65	53	43		
Statistical clerks	766	715	3 592	3 201	3 940	3 780	106	104	791	746	4 235	3 926	5 483	5 480		
Teachers' aides	150	82	1 198	533	546	389	25	12	140	64	1 266	868	1 208	807		
Administrative support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	521	216	2 459	1 169	2 352	806	54	9	382	148	2 647	1 316	3 250	1 435		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Machinery, except electrical—Con.				Electrical machinery, equipment, and supplies									
Office and accounting machines		Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
1 656	378	5 899	1 371	18 965	2 639	608	85	3 952	598	9 727	2 055	21 829	4 134
Private household occupations													
Supervisors, protective service occupations	439	1 584	201	2 868	178	36	14	925	52	3 043	391	4 683	445
Supervisors, fire fighting and fire prevention occupations	20	99		130				25		192	22	210	22
Supervisors, police and detectives										6		2	
Supervisors, guards	20	99		130				25		186	22	208	22
Fire fighting and fire prevention occupations		12		63				24	5	19		73	15
Fire inspection and fire prevention occupations		12		47				18	5	13		35	
Firefighting occupations				16				6		6		38	15
Police and detectives													
Police and detectives, public service													
Sheriffs, bailiffs, and other law enforcement officers													
Correctional institution officers													
Guards	419	1 473	201	2 675	178	36	14	876	47	2 832	369	4 400	408
Crossing guards				5						9		2	
Guards and police, except public service	419	1 468	196	2 670	178	36	14	876	47	2 818	369	4 392	406
Protective service occupations, n.e.c.		5								5		6	
Service occupations, except protective and household													
Food preparation and service occupations	1 217	4 315	1 170	16 097	2 461	572	71	3 027	546	6 684	1 664	17 146	3 689
Supervisors, food preparation and service occupations	304	775	607	780	552	15	10	211	139	695	470	1 075	734
Bartenders	4	70	18	50	39			6		5	51	67	29
Waiters and waitresses	18	5	51	2	54			28	28	107	76	138	103
Cooks, except short order	121	69	108	225	165	15	10	32	26	191	128	266	158
Short-order cooks										10	5		
Food counter, fountain and related occupations		21	21	48	19			17	10	23	6	30	14
Kitchen workers, food preparation	29	139	52	59	53			37	37	52	32	59	36
Waiters' and waitresses' assistants	28	139	124	50	33			17	17	71	60	80	80
Miscellaneous food preparation occupations	104	255	233	284	172			74	21	163	112	426	314
Health service occupations	5	23	23	175	122	4	4	15	11	66	59	160	124
Dental assistants		6	6	3	3					14	14	5	
Health aides, except nursing													
Nursing aides, orderlies, and attendants	5	17	17	21	17			15	11	45	45	130	127
Cleaning and building service occupations, except household	881	3 425	472	14 901	1 695	538	50	2 759	368	5 746	1 084	15 589	2 636
Supervisors, cleaning and building service workers	17	104		181	33			14		89	9	317	40
Maid and housemen	42	227	51	224	204			121	16	407	178	870	294
Janitors and cleaners	814	3 094	421	13 968	1 444	506	50	2 577	352	5 232	897	14 342	2 291
Elevator operators								40		18		60	11
Pest control occupations				16	14			7					
Personal service occupations													
Supervisors, personal service occupations	27	92	68	241	92	15	7	42	28	177	51	322	195
Bartenders	5	11	7	18				7				37	11
Waitresses and cosmetologists				2								6	6
Attendants, amusement and recreation facilities	7	45	38	26	5	5	5	7	7	41	11	62	55
Guides		18	5	15	8	8				13		30	10
Ushers													
Public transportation attendants													
Baggage porters and bellhops													
Welfare service aides													
Child care workers, except private household				4									
Personal service occupations, n.e.c.	15	18	18	135	79	2	2	7	7	5		42	3
Farming, forestry, and fishing occupations													
Farm operators and managers	16	78	40	419	45	24	5	47	11	345	153	623	361
Farm occupations, except managerial													
Related agricultural occupations		13	13	5	5	12	5			66	53	212	185
Supervisors, related agricultural occupations		65	27	241	40	6		38	2	210	85	338	190
Groundskeepers and gardeners, except farm													
Animal caretakers, except farm		65	27	191	10	6		36	2	198	79	327	139
Graders and sorters, agricultural products										12	6		
Inspectors, agricultural products													

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.

United States	Office and accounting machines				Machinery, except electrical—Con.				Not specified machinery				Household appliances				Radio, TV, and communication equipment				Electrical machinery, equipment, and supplies			
	Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forestry and logging occupations	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, forestry and logging workers	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Timber cutting and logging occupations	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fishers, hunters, and trappers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fishers	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	15 649	2 686	—	—	50 082	13 704	—	—	12 211	417	—	—	26 862	3 691	—	—	110 824	32 762	—	—	231 172	74 233	—	—
Mechanics and repairers	7 258	761	—	—	16 628	1 613	—	—	2 510	94	—	—	8 652	1 121	—	—	33 149	6 627	—	—	39 903	6 160	—	—
Supervisors, mechanics and repairers	96	—	—	—	195	—	—	—	6	—	—	—	173	—	—	—	594	70	—	—	821	30	—	—
Mechanics and repairers, except supervisors	7 162	761	—	—	16 433	1 602	—	—	2 504	94	—	—	8 479	1 107	—	—	32 555	6 557	—	—	39 082	6 130	—	—
Vehicle and mobile equipment mechanics and repairers	62	9	—	—	185	—	—	—	159	2	—	—	321	—	—	—	560	96	—	—	2 037	296	—	—
Automobile mechanics	39	9	—	—	93	—	—	—	77	2	—	—	88	—	—	—	236	43	—	—	1 102	174	—	—
Bus, truck, and stationary engine mechanics	—	—	—	—	—	—	—	—	13	—	—	—	10	—	—	—	50	13	—	—	94	4	—	—
Aircraft engine mechanics	13	—	—	—	27	—	—	—	4	—	—	—	11	—	—	—	110	20	—	—	166	16	—	—
Small engine repairers	—	—	—	—	—	—	—	—	5	—	—	—	35	—	—	—	—	—	—	—	94	33	—	—
Automobile body and related repairers	6	—	—	—	29	—	—	—	17	—	—	—	—	—	—	—	—	—	—	—	73	—	—	—
Aircraft mechanics, except engine	—	—	—	—	—	—	—	—	27	—	—	—	—	—	—	—	—	—	—	—	30	—	—	—
Heavy equipment mechanics	4	—	—	—	17	—	—	—	43	—	—	—	168	—	—	—	108	13	—	—	403	34	—	—
Farm equipment mechanics	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	—	—	—
Industrial machinery repairers	1 292	92	—	—	824	106	—	—	776	6	—	—	2 184	94	—	—	2 439	231	—	—	13 399	1 098	—	—
Machinery maintenance occupations	12	—	—	—	7	—	—	—	7	—	—	—	139	—	—	—	95	16	—	—	430	53	—	—
Electrical and electronic equipment repairers	840	100	—	—	11 202	922	—	—	43	7	—	—	2 602	535	—	—	23 197	4 802	—	—	8 798	1 975	—	—
Electronic repairers, communications and industrial equipment	237	25	—	—	799	150	—	—	6	—	—	—	148	29	—	—	4 350	1 285	—	—	3 207	665	—	—
Data processing equipment repairers	524	72	—	—	10 116	717	—	—	22	7	—	—	19	15	—	—	580	146	—	—	1 092	153	—	—
Household appliance and power tool repairers	27	—	—	—	692	10	—	—	5	—	—	—	2 204	397	—	—	156	55	—	—	585	57	—	—
Telephone line installers and repairers	—	—	—	—	17	—	—	—	—	—	—	—	—	—	—	—	232	64	—	—	48	19	—	—
Telephone installers and repairers	28	3	—	—	149	17	—	—	10	—	—	—	41	2	—	—	17 652	3 191	—	—	852	270	—	—
Miscellaneous electrical and electronic equipment repairers	24	—	—	—	61	28	—	—	—	—	—	—	190	92	—	—	227	61	—	—	3 034	811	—	—
Heating, air conditioning, and refrigeration mechanics	48	—	—	—	267	—	—	—	6	—	—	—	861	78	—	—	284	7	—	—	563	—	—	—
Miscellaneous mechanics and repairers	4 908	560	—	—	2 925	549	—	—	1 513	79	—	—	2 372	381	—	—	5 980	1 405	—	—	13 855	2 708	—	—
Camera, watch, and musical instrument repairers	157	37	—	—	66	27	—	—	9	—	—	—	32	9	—	—	106	45	—	—	386	161	—	—
Locksmiths and safe repairers	—	—	—	—	25	—	—	—	—	—	—	—	—	—	—	—	35	—	—	—	16	—	—	—
Office machine repairers	2 289	219	—	—	333	65	—	—	—	—	—	—	9	—	—	—	64	14	—	—	275	133	—	—
Mechanical controls and valve repairers	—	—	—	—	—	—	—	—	—	—	—	—	8	—	—	—	89	10	—	—	135	15	—	—
Elevator installers and repairers	8	—	—	—	9	—	—	—	2	—	—	—	12	—	—	—	42	—	—	—	140	13	—	—
Millwrights	639	226	—	—	386	150	—	—	1 070	59	—	—	649	124	—	—	796	130	—	—	2 277	346	—	—
Specialized mechanics and repairers, n.e.c.	1 088	54	—	—	868	187	—	—	210	—	—	—	710	108	—	—	1 944	575	—	—	5 541	1 198	—	—
Not specified mechanics and repairers	576	24	—	—	1 232	120	—	—	218	11	—	—	952	108	—	—	2 904	631	—	—	5 085	842	—	—
Construction trades	566	42	—	—	1 789	143	—	—	578	27	—	—	2 425	216	—	—	6 828	1 109	—	—	15 997	1 458	—	—
Supervisors, construction occupations	45	1	—	—	183	32	—	—	25	—	—	—	55	9	—	—	310	33	—	—	604	53	—	—
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	—	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	20	—	—	—	24	19	—	—	2	—	—	—	19	—	—	—	95	12	—	—	376	50	—	—
Supervisors, plumbers, pipefitters, and plasterers	6	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, painters, paperhangers, and steamfitters	—	—	—	—	—	—	—	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	19	1	—	—	2	13	—	—	12	—	—	—	36	9	—	—	209	21	—	—	213	3	—	—
Construction trades, except supervisors	521	41	—	—	1 606	111	—	—	553	27	—	—	2 370	207	—	—	6 518	1 076	—	—	15 393	1 405	—	—
Brickmasons and stonemasons	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tile setters, hard and soft	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpet installers	108	6	—	—	272	6	—	—	62	—	—	—	170	—	—	—	640	28	—	—	1 298	45	—	—
Drywall installers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electricians	263	16	—	—	955	82	—	—	292	12	—	—	1 247	106	—	—	4 168	810	—	—	10 073	830	—	—
Electrical power installers and repairers	4	—	—	—	24	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, construction and maintenance	55	7	—	—	152	6	—	—	104	9	—	—	431	39	—	—	491	117	—	—	1 339	220	—	—
Paperhangers	7	—	—	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.															
Machinery, except electrical—Con.				Electrical machinery, equipment, and supplies											
				Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Construction trades—Con.															
Construction trades, except supervisors—Con.															
Plasterers															
Plumbers, pipefitters, and steamfitters															
Concrete and masonry finishers															
Glaziers															
Insulation workers															
Paving, surfacing, and tamping equipment operators															
Roofers															
Sheetmetal duct installers															
Structural metal workers															
Drillers, earth															
Construction trades, n.e.c.															
Extractive occupations															
Supervisors, extractive occupations															
Drillers, oil well															
Explosives workers															
Mining machine operators															
Mining occupations, n.e.c.															
Precision production occupations															
Supervisors, production occupations															
Precision metalworking occupations															
Tool and die makers															
Precision assemblers, metal															
Machinists															
Boilermakers															
Precision grinders, filers, and tool sharpeners															
Patternmakers and model makers, metal															
Lay-out workers															
Precious stones and metals workers (jewelers)															
Engravers, metal															
Sheet metal workers															
Miscellaneous precision metal workers															
Precision woodworking occupations															
Patternmakers and model makers, wood															
Cabinet makers and bench carpenters															
Furniture and wood finishers															
Miscellaneous precision woodworkers															
Precision textile, apparel, and furnishings machine workers															
Dressmakers															
Tailors															
Upholsterers															
Shoe repairers															
Apparel and fabric patternmakers															
Miscellaneous precision apparel and fabric workers															
Precision workers, assorted materials															
Hand molders and shapers, except jewelers															
Patternmakers, lay-out workers, and cutters															
Optical goods workers															
Dental laboratory and medical appliance technicians															
Bookbinders															
Electrical and electronic equipment assemblers															
Miscellaneous precision workers, n.e.c.															
Precision food production occupations															
Butchers and meat cutters															
Bakers															
Food processors															
Precision inspectors, testers, and related workers															
Precision inspectors, testers, and graders															
Adjusters and calibrators															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

		Machinery, except electrical—Con.				Manufacturing, durable goods—Con.				Electrical machinery, equipment, and supplies			
		Office and accounting machines		Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Precision production occupations—Con.													
Plant and system operators													
Water and sewage treatment plant operators	85	1 376	58	1 490	92	1 578	7	1 585	66	356	35	2 102	184
Stationary engineers	—	26	2	57	7	1 98	7	—	—	29	—	32	2
Miscellaneous plant and system operators	85	1 347	56	1 387	16	1 371	69	57	—	10	—	32	79
Operators, fabricators, and laborers													
Machine operators, assemblers, and inspectors	28 949	77 871	45 806	433 560	87 303	433 560	87 303	2 034	—	308	26	2 005	161
Machine operators and tenders, except precision	25 619	70 840	43 758	377 889	79 813	377 889	79 813	1 817	—	9	9	190 527	121 234
Machine operators and tenders, except precision	8 913	17 285	7 537	309 438	32 454	309 438	32 454	1 076	—	46 902	46 902	168 069	112 916
Lathe and turning machine operators	2 732	3 335	1 726	100 657	11 198	100 657	11 198	247	—	11 254	11 254	54 762	29 408
Lathe and turning machine operators	366	42	132	8 905	1 467	8 905	1 467	5	—	2 190	2 190	6 832	3 258
Mill and planing machine operators	118	776	132	28 029	376	28 029	376	5	—	1 334	1 334	1 150	393
Punching and stamping press machine operators	732	95	18	11 553	286	11 553	286	24	—	607	607	1 150	393
Rolling machine operators	6	622	146	11 553	286	11 553	286	24	—	607	607	1 150	393
Drilling and boring machine operators	354	337	141	12 539	2 147	12 539	2 147	10	—	5 127	5 127	2 488	1 405
Grinding, abrading, buffing, and polishing machine operators	653	1 024	337	30 795	3 627	30 795	3 627	58	—	597	211	794	363
Forging machine operators	7	18	—	732	94	732	94	—	—	30	—	82	43
Numerical control machine operators	9	26	—	447	36	447	36	2	—	6	—	69	13
Miscellaneous metal, plastic, stone, and glass working machine operators	98	81	30	2 726	44	2 726	44	—	—	176	37	2 056	794
Fabricating machine operators, n.e.c.	121	138	89	1 527	406	1 527	406	—	—	30	—	82	43
Metal and plastic processing machine operators	447	973	297	3 688	913	3 688	913	17	—	176	37	2 056	794
Molding and casting machine operators	193	350	124	1 799	83	1 799	83	22	—	176	37	2 056	794
Metal treating equipment operators	144	13	—	2 190	125	2 190	125	16	—	176	37	2 056	794
Miscellaneous metal and plastic processing machine operators	89	—	—	—	—	—	—	—	—	176	37	2 056	794
Woodworking machine operators	21	37	—	914	81	914	81	—	—	176	37	2 056	794
Wood lathe, turning, and planing machine operators	69	62	23	1 644	193	1 644	193	6	—	98	11	93	21
Sawing machine operators	6	19	9	1 254	32	1 254	32	8	—	228	132	364	102
Shaping and joining machine operators	37	17	4	1 156	101	1 156	101	2	—	31	—	31	6
Nailing and tacking machine operators	11	10	10	154	46	154	46	2	—	199	9	199	41
Miscellaneous woodworking machine operators	12	2	—	164	8	164	8	—	—	68	—	68	40
Printing machine operators	2	14	—	—	—	—	—	—	—	6	—	6	—
Printing machine operators	211	783	307	1 872	559	1 872	559	15	—	2	—	66	15
Photoengraving and lithographers	157	417	181	1 220	322	1 220	322	15	—	197	52	1 307	694
Typesetters and compositors	10	55	31	166	6	166	6	—	—	150	41	1 032	486
Miscellaneous printing machine operators	38	99	85	371	211	371	211	—	—	20	6	85	65
Textile, apparel, and furnishings machine operators	6	12	10	115	20	115	20	—	—	5	5	137	118
Winding and twisting machine operators	76	224	117	2 444	1 407	2 444	1 407	129	—	22	—	53	25
Knitting, looping, taping, and weaving machine operators	—	9	—	504	277	504	277	78	—	1 295	1 185	380	226
Textile cutting machine operators	19	15	15	227	158	227	158	6	—	5	—	62	30
Textile sewing machine operators	—	—	—	40	—	40	—	—	—	9	9	10	7
Shoe machine operators	34	62	17	856	659	856	659	7	—	18	—	18	2
Pressing machine operators	—	—	—	126	52	126	52	65	—	113	—	113	86
Laundry and dry cleaning machine operators	8	10	5	39	22	39	22	7	—	30	—	30	6
Miscellaneous textile machine operators	15	128	80	583	215	583	215	—	—	19	—	17	6
Machine operators, assorted materials	5 258	11 770	5 778	93 323	17 758	93 323	17 758	17	—	36	17	124	95
Cementing and glazing machine operators	65	31	61	419	102	419	102	4 063	704	17 499	6 745	40 060	23 960
Extruding and rolling machine operators	66	30	21	577	253	577	253	14	—	89	47	571	281
Mixing and blending machine operators	30	29	27	228	45	228	45	4	—	101	74	253	201
Separating, filtering, and clarifying machine operators	103	9	49	378	126	378	126	23	—	132	33	164	148
Compressing and compacting machine operators	9	7	6	21	6	21	6	6	—	27	48	587	277
Planing and joint spraying machine operators	355	—	—	—	—	—	—	—	—	—	—	—	—
Roasting and baking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—
Washing, cleaning, and packing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.

	Machinery, except electrical—Con.				Electrical machinery, equipment, and supplies			
	Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances	
	Total	Female	Total	Female	Total	Female	Total	Female
Office and accounting machines								
Total	4	4	46	169	35	7	93	45
Female	61	16	234	2 934	19	4	455	38
Machine operators, assemblers, and inspectors—Con.	16	9	40	88	19	4	13	13
Machine operators, assemblers, and inspectors—Con.	212	78	348	552	48	10	678	201
Food processing machine operators	—	—	—	6	—	—	—	—
Textile, leather, and other machine operators	—	—	—	13	—	—	—	—
Shaping and cutting machine operators	—	—	—	6	—	—	—	—
Shaping and cutting machine operators	—	—	—	370	48	11	29	14
Motion picture projectionists	72	46	433	598	943	160	3 930	2 022
Photographic process machine operators	1 067	579	3 167	4 922	2 699	479	9 741	3 908
Miscellaneous machine operators, n.e.c.	3 181	1 459	5 894	10 190	—	—	—	—
Machine operators, not specified	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	12 612	7 779	37 177	134 834	3 761	632	52 240	27 951
Welders and others	744	84	1 774	2 366	1 670	72	5 481	1 206
Solders and brazers	339	291	1 951	711	28	14	3 367	215
Assemblers and trimmers	11 483	7 386	33 736	89 470	2 033	540	46 044	26 439
Hand working, casting, and forming occupations	6	6	35	112	6	—	38	25
Hand working, casting, and forming occupations	19	7	2	20	12	—	158	31
Hand painting, coating, and decorating occupations	—	—	—	—	—	—	10	—
Hand engraving and printing occupations	—	—	—	—	—	—	5	—
Hand grinding and polishing occupations	—	—	—	—	—	—	170	78
Miscellaneous hand working occupations	2	2	55	282	6	6	95	33
Production inspectors, testers, samplers, and weighers	4 094	2 048	16 378	33 617	398	109	8 264	3 904
Production inspectors, testers, samplers, and weighers	3 109	1 704	11 673	28 738	337	101	7 026	3 222
Production testers	949	344	4 576	4 374	56	8	1 113	630
Production samplers and weighers	—	—	9	75	—	—	26	45
Production samplers and weighers	36	20	120	204	5	—	99	45
Graders and sorters, except agricultural	—	—	—	—	—	—	—	—
Transportation and material moving occupations	1 111	104	2 866	23 221	671	21	6 930	698
Motor vehicle operators	438	10	788	8 954	337	14	1 778	89
Supervisors, motor vehicle operators	—	—	14	6	—	—	—	—
Truck drivers, heavy	262	5	418	149	239	2	1 380	51
Truck drivers, light	128	5	269	114	82	6	287	29
Driver-sales workers	18	5	25	362	10	—	14	—
Bus drivers	6	—	12	10	6	—	94	9
Taxi drivers and chauffeurs	46	—	44	453	6	6	—	—
Parking lot attendants	—	—	—	12	—	—	—	—
Motor transportation occupations, n.e.c.	—	—	6	8	—	—	—	—
Rail transportation occupations	—	—	22	75	7	7	—	—
Railroad conductors and yardmasters	—	—	10	8	—	—	—	—
Locomotive operating occupations	—	—	10	11	—	—	—	—
Railroad brake, signal, and switch operators	—	—	2	56	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—
Water transportation occupations	—	—	38	49	12	—	—	—
Ship captains and mates, except fishing boats	—	—	—	21	6	—	—	—
Sailors and deckhands	—	—	—	3	—	—	—	—
Marine engineers	—	—	38	23	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	2	—	—	—	—
Material moving equipment operators	653	94	2 018	14 143	315	7	5 152	609
Supervisors, material moving equipment operators	13	—	155	245	5	—	30	—
Longshore equipment operators	—	—	40	145	—	—	110	—
Hoist and winch operators	—	—	—	9	—	—	—	—
Crane and tower operators	23	—	35	1 986	66	—	213	12
Excavating and loading machine operators	—	—	—	74	3	—	6	—
Grader, dozer, and tractor operators	—	—	—	54	—	—	16	—
Industrial truck and tractor equipment operators	260	9	410	8 091	175	7	3 287	324
Miscellaneous material moving equipment operators	357	85	1 378	3 488	60	—	1 554	259
Electrical machinery, equipment, and supplies, n.e.c.								
Total	202	13	51	605	205	13	202	80
Female	3 497	41	86	354	479	7	3 497	990
Radio, TV, and communication equipment	4 789	—	988	491	—	—	4 789	1 822
Household appliances	1 337	331	605	331	—	—	1 337	916
Not specified machinery	26 483	7 707	12 045	44 589	2 699	12 972	62 420	34 198
Machinery, except electrical, n.e.c.	140 640	65 287	85 940	27 951	3 761	632	52 240	27 951
Electronic computing equipment	202 752	18 452	3 243	1 060	1 670	72	5 481	1 206
Machine operators, assemblers, and inspectors—Con.	18 452	8 308	4 644	215	28	14	3 367	215
Machine operators, assemblers, and inspectors—Con.	174 488	59 791	77 564	26 439	2 033	540	46 044	26 439
Food processing machine operators	206	70	83	74	6	—	38	25
Textile, leather, and other machine operators	182	49	170	31	12	—	158	31
Shaping and cutting machine operators	9	—	5	—	—	—	10	—
Shaping and cutting machine operators	44	—	171	—	—	—	95	33
Motion picture projectionists	542	91	27 347	18 021	398	109	8 264	3 904
Photographic process machine operators	41 567	52 676	23 030	16 232	337	101	7 026	3 222
Miscellaneous machine operators, n.e.c.	3 755	156	30	75	56	8	1 113	630
Machine operators, not specified	802	678	322	253	—	—	99	45
Production inspectors, testers, samplers, and weighers	21 045	1 327	7 082	23 221	671	21	6 930	698
Production inspectors, testers, samplers, and weighers	3 145	6 178	1 837	8 954	337	14	1 778	89
Production testers	28	28	16	6	—	—	—	—
Production samplers and weighers	41 567	52 676	23 030	16 232	337	101	7 026	3 222
Production samplers and weighers	3 755	156	30	75	56	8	1 113	630
Graders and sorters, except agricultural	802	678	322	253	—	—	99	45
Transportation and material moving occupations	21 045	1 327	7 082	23 221	671	21	6 930	698
Motor vehicle operators	3 145	6 178	1 837	8 954	337	14	1 778	89
Supervisors, motor vehicle operators	28	28	16	6	—	—	—	—
Truck drivers, heavy	44	44	316	11	82	6	287	29
Truck drivers, light	29	29	16	—	10	—	14	—
Driver-sales workers	32	32	20	—	6	—	94	9
Bus drivers	12	12	—	—	—	—	—	—
Taxi drivers and chauffeurs	6	6	—	—	—	—	—	—
Parking lot attendants	—	—	—	—	—	—	—	—
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	—	—
Rail transportation occupations	35	35	21	4	7	7	—	—
Railroad conductors and yardmasters	13	13	9	—	—	—	—	—
Locomotive operating occupations	22	22	5	—	—	—	—	—
Railroad brake, signal, and switch operators	—	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—
Water transportation occupations	—	—	30	—	12	—	—	—
Ship captains and mates, except fishing boats	—	—	—	—	6	—	—	—
Sailors and deckhands	—	—	—	—	—	—	—	—
Marine engineers	—	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—
Material moving equipment operators	2 882	14 686	5 152	14 143	315	7	5 152	609
Supervisors, material moving equipment operators	28	28	30	245	5	—	30	—
Longshore equipment operators	22	105	8	145	—	—	110	—
Hoist and winch operators	—	—	—	9	—	—	—	—
Crane and tower operators	13	20	213	1 986	66	—	213	12
Excavating and loading machine operators	57	57	6	74	3	—	6	—
Grader, dozer, and tractor operators	13	17	16	54	—	—	16	—
Industrial truck and tractor equipment operators	765	6 676	1 893	8 091	175	7	3 287	324
Miscellaneous material moving equipment operators	1 982	6 222	2 757	3 488	60	—	1 554	259

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

		Machinery, except electrical—Con.				Manufacturing, durable goods—Con.				Electrical machinery, equipment, and supplies			
		Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Office and accounting machines	Total	4 165	1 450	32 450	6 225	996	196	8 659	3 095	15 376	6 991	40 100	19 698
	Female	—	—	—	—	—	—	—	—	—	—	—	—
Employed persons 16 years and over—Con.	2 219	—	—	19	—	—	—	—	—	—	—	—	—
	10	—	—	294	13	—	—	12	—	84	26	103	29
Operators, fabricators, and laborers—Con.	47	4	2	299	7	7	—	15	—	37	—	146	11
Handers, equipment cleaners, helpers, and laborers	5	27	—	299	7	7	—	18	—	28	—	154	29
Supervisors; handlers, equipment cleaners, and laborers, n.e.c.	5	—	—	—	—	—	—	—	—	—	—	154	29
Helpers, mechanics and repairers	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, construction and extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, surveyor	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	5	49	5	340	6	36	—	31	14	133	—	—	—
Production helpers	47	88	22	3 044	189	72	7	224	53	409	23	97	37
Freight, stock, and material handlers	408	896	279	4 178	500	158	41	3 010	755	3 637	76	1 375	390
Garbage collectors	10	10	10	11	—	6	—	10	—	29	14	10 767	4 598
Stevordors	—	—	—	—	—	—	—	—	—	—	—	79	46
Stock handlers and baggers	124	340	116	1 524	205	64	27	359	97	1 203	524	1 953	615
Machine feeders and offbearers	174	213	69	1 228	155	53	14	1 577	503	1 545	771	5 908	3 076
Freight, stock, and material handlers, n.e.c.	100	315	92	1 701	140	35	—	1 064	150	840	254	2 827	861
Garage and service station related occupations	12	—	—	92	21	2	—	6	—	7	7	90	36
Vehicle washers and equipment cleaners	35	92	36	1 425	202	63	—	184	52	259	143	993	417
Hand packers and packagers	889	1 039	420	6 577	2 731	120	96	2 137	1 272	4 725	2 740	12 429	8 169
Laborers, except construction	799	1 948	686	16 171	2 536	538	52	3 022	949	6 060	2 413	13 746	5 982

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.

Transportation equipment

United States	Electrical machinery, equipment, and supplies—Con.				Motor vehicles and motor vehicle equipment				Aircraft and parts				Ship and boat building and repairing				Railroad locomotives and equipment				Guided missiles, space vehicles, and parts				Cycles and miscellaneous transportation equipment			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	165 919	74 399	1 171 123	213 237	624 861	133 170	303 356	34 057	68 476	6 938	200 603	46 072	60 083	13 775														
Managerial and professional specialty occupations	36 209	5 446	128 413	13 690	151 237	15 251	32 370	3 375	7 024	795	92 912	9 743	7 562	1 063														
Executive, administrative, and managerial occupations	20 835	4 275	69 394	8 966	52 661	8 275	16 083	2 542	4 068	545	29 737	5 068	5 241	858														
Legislative, chief executives, and general administrators; public administrators																												
Administrators and officials, public administration																												
Federal																												
State																												
Local																												
Administrators, protective services	686	146	2 325	267	1 722	202	344	78	196	11	1 026	126	164	43														
Financial managers	596	179	2 560	437	1 883	373	610	115	98	37	1 203	300	169	36														
Personal and labor relations managers																												
Purchasing managers	408	90	933	101	1 923	225	449	56	78	257	1 329	182	147	20														
Managers, marketing, advertising, and public relations	2 288	130	6 593	398	1 838	109	633	78	257	13	805	16	571	39														
Administrators, education and related fields	12		44	13	53	6	71				47		2															
Managers, medicine and health																												
Managers, properties and real estate	27		66		125	20	32	18	8		118	16	7															
Postmasters and mail superintendents																												
Managers and administrators, n.e.c.																												
Federal directors	12 724	1 876	31 365	2 185	24 980	2 054	8 967	992	1 955	195	16 254	1 462	2 907	306														
Managers and administrators, n.e.c.	12 298	1 815	30 263	2 061	24 635	1 997	8 292	909	1 914	185	16 213	1 450	2 668	267														
Self-employed	426	61	1 102	124	845	57	725	83	41	10	41	12	239	37														
Management related occupations	4 094	1 854	25 501	5 545	20 126	5 275	4 977	1 205	1 476	302	8 955	2 966	1 274	407														
Accountants and auditors	1 483	645	12 234	3 168	7 316	2 388	1 683	439	756	157	3 536	1 370	475	199														
Underwriters																												
Other financial officers	137	26	12	12	1 439	399	212	36	62		965	315	60	16														
Management analysts	122	23	1 458	209	402	88	184	57	24		466	166	34	6														
Personnel, training, and labor relations specialists	756	462	5 778	1 138	3 385	939	1 014	320	267	62	1 484	430	192	45														
Purchasing agents and buyers, farm products																												
Buyers, wholesale and retail trade except farm products																												
Business and promotion agents																												
Construction inspectors																												
Inspectors and inspectors, except construction																												
Management related occupations, n.e.c.																												
Professional specialty occupations	15 374	1 171	59 019	4 724	98 576	6 976	16 287	833	2 956	250	63 175	4 675	2 321	205														
Engineers, architects, and surveyors	12 281	568	43 994	1 612	78 430	2 738	11 979	208	2 255	72	51 166	1 950	1 625	28														
Engineers	5		94	8	65		199		2 249	66	51 106	1 943	1 625	28														
Engineers, n.e.c.	12 289	568	43 886	1 604	78 360	2 738	11 758	206	2 249	66	51 106	1 943	1 625	28														
Aerospace engineers	144	6	226	25	1 202	90	247		55	18	28 440	1 012	26	6														
Metallurgical and materials engineers	31		1 059		6		12		23	5			58															
Mining engineers																												
Petroleum engineers																												
Chemical engineers	67		323	33	425	48	793		6		285	26																
Nuclear engineers	8		2	2	32		377		101	9	164	6	9															
Civil engineers	47		531	3	1 464	48	377		101	9	164	6	9															
Agricultural engineers																												
Electrical and electronic engineers	8 509	228	2 062	49	7 856	111	1 407	27	194	14	9 342	420	118	14														
Industrial engineers	1 648	257	10 223	673	13 871	959	2 034	85	771	14	5 270	420	548	6														
Mechanical engineers	547	23	26 553	693	5 303	62	1 325	18	837	16	2 846	77	652	6														
Marine engineers and naval architects																												
Engineers, n.e.c.	1 048	48	2 847	120	3 176	126	2 298	43	253	13	3 357	172	214	2														
Surveyors and mapping scientists	7		14		5		22		6		7																	
Mathematical and computer scientists	694	107	4 389	738	8 889	1 926	801	186	205	29	6 030	1 416	159	28														
Computer systems analysts and scientists	403	53	2 474	339	4 547	1 003	379	90	105	16	3 351	746	92	12														
Operations and systems researchers and analysts	253	41	1 437	260	3 214	603	364	90	87	16	1 800	404	75	8														
Activities																												
Statisticians	27	11	460	131	437	251	41	6	13	11	399	215	22															
Mathematical scientists, n.e.c.																												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.

	Electrical machinery, equipment, and supplies—Con.				Transportation equipment											
	Not specified electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		Cycles and miscellaneous transportation equipment	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations	43 426	19 595	149 759	61 698	132 951	63 149	38 350	16 678	8 346	3 582	53 013	25 173	9 594	4 937		
Technicians and related support occupations	14 338	2 483	22 509	2 478	33 494	4 975	9 290	921	1 362	165	18 087	2 744	1 166	146		
Health technicians and technicians	39	15	225	104	20	4	52	18	22	15	45	11	6			
Health laboratory technicians and technicians	7	7	48	18	6	4	3	3			8					
Dental hygienists																
Health record technicians and technicians																
Radiologic technicians																
Licensed practical nurses	32	8	117	18	50	14	105	28	7	15	21		6			
Health technicians and technicians, n.e.c.																
Engineering and related technicians and technicians	10 357	1 594	16 211	1 201	22 356	2 965	7 107	484	1 094	93	10 666	1 285	775	76		
Electrical and electronic technicians	7 851	1 011	1 483	121	6 195	823	1 697	133	127	10	4 479	360	44	6		
Electrical and electronic technicians	60		306	23	1 279	167	133	76	32		76	27	30			
Industrial engineering technicians	86		2 520	60	6 140	1 088	2 469	88	208	26	2 794	460	138	17		
Mechanical engineering technicians	748	283	3 839	418	8 515	1 319	2 641	315	672	43	2 681	421	543	53		
Engineering technicians, n.e.c.	1 571	300	8 029	572	80	11	91				20					
Drafting occupations	21		34	7	60				31	13	777	110	85	19		
Surveying and mapping technicians																
Science technicians	422	204	856	140	1 116	153	542	38								
Biological technicians	51		38	14	22											
Chemical technicians	41	26	250	41	173	34	91	25	31	13	214	42	27	19		
Science technicians, n.e.c.	330	138	568	85	921	119	1 374	314	215	44	6 599	1 338	300	51		
Technicians, except health, engineering, and science	3 520	670	5 187	1 033	9 916	1 809	1 374	65	2		71		2			
Technicians, except health, engineering, and science	21		126		1 127	30										
Airplane pilots and navigators																
Air traffic controllers																
Broadcast equipment operators	54	7	291	51	89	18	53		6		28	1 031	168	31		
Computer programmers	997	286	2 951	778	5 153	1 318	492	140	146	38	3 782	31	14	6		
Tool programmers, numerical control	48	11	141	27	519	19	37	14	17	6	6					
Legal assistants	7		95	41	40	43	20	14	38		2 586	270	116	14		
Legal technicians, n.e.c.	2 393	359	1 823	174	2 968	381	707	154								
Sales occupations	6 566	827	16 019	1 544	3 985	789	1 883	345	667	87	1 188	184	1 335	131		
Supervisors and proprietors, sales occupations	472	55	2 357	111	567	68	294	28	43	6	204	18	158	18		
Sanitary	422	12	2 244	85	561	68	241	15	36	6	204	18	151	7		
Self-employed	50	13	91	13	15	13	14		7		15					
Sales representatives, finance and business services	24	6									9					
Insurance sales occupations																
Real estate sales occupations	18		23		2		7				6					
Securities and financial services sales occupations																
Advertising and related sales occupations	6		68	13	13		7									
Sales occupations, other business services																
Sales representatives, commodities, except retail	5 532	626	9 913	736	2 768	312	1 385	274	581	68	844	91	955	64		
Sales engineers									55	5	102		29			
Sales representatives, mining, manufacturing, and wholesale	4 906	601	9 171	727	2 446	306	1 367	274	526	63	742	91	926	64		
Sales workers, retail and personal services	526	134	3 570	678	612	389	1 970	43	43	13	125	75	210	49		
Sales workers, commodities	288	30	2 925	225	259	51	79		29	6	43	6	136	2		
Sales counter clerks	16	8	39	7	336	321	95	43	9	2	76	69	25	25		
Cashiers	184	79	517	425	12	12	7						49	22		
Street and door-to-door sales workers	26	11	48	13	5	5	2				6					
Cashiers	12	6	41	8	12	12	7									
News vendors	12	2	88	6	23	7	7						12	12		
Sales related occupations	10	2	80	6	11											
Demonstrators, promoters and models, sales	2															
Auctioneers																
Sales support occupations, n.e.c.																
Administrative support occupations, including clerical	22 572	16 285	111 231	57 676	95 472	57 385	27 177	15 412	6 317	3 330	33 738	22 245	7 093	4 660		
Supervisors, administrative support occupations	1 250	554	8 324	1 468	5 302	1 400	1 285	443	406	69	2 070	335	456	151		
Supervisors, general office	477	241	2 946	802	2 138	962	1 285	291	170	50	815	27	171	107		
Supervisors, computer equipment operators	79	39	637	73	375	67	76	12	6		366	85	16	34		
Supervisors, financial records processing	197	101	1 962	456	1 012	224	210	102	73	19	415	12	108	108		
Supervisors, financial records processing																
Chief communications operators																
Supervisors, distribution, scheduling, and adjusting clerks	497	203	2 763	1 126	1 554	180	339	31	154	38	462	926	161	10		
Supervisors, distribution, scheduling, and adjusting clerks	706	392	4 455	2 150	3 706	1 848	701	345	199	80	2 033	896	243	182		
Computer equipment operators	684	375	4 148	1 978	3 706	1 848	646	313	179	66	1 981	30	236	7		
Computer operators			307	172	232	101	55	32	20							
Peripheral equipment operators																

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States		Manufacturing, durable goods (on)													
		Electrical machinery, equipment, and supplies—Con.					Transportation equipment								
		Not specified electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		(cycles and miscellaneous transportation equipment)	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.		5 595	5 543	23 788	23 373	22 808	22 559	6 204	6 060	1 491	1 468	11 171	11 015	1 885	1 859
Technical, sales, and administrative support occupations—Con.		5 092	5 050	20 714	20 353	18 427	18 301	4 415	4 317	1 268	1 255	9 639	9 537	1 592	1 571
Administrative support occupations, including clerical—Con.		33	33	369	369	376	376	19	19	29	29	139	139	30	30
Secretaries, stenographers, and typists		470	460	2 705	2 560	3 787	3 664	1 650	1 604	194	184	1 398	1 350	263	258
Information clerks		474	448	1 342	1 173	769	659	283	241	68	61	332	276	120	120
Hotel clerks		26	16	102	78	78	40	22	15	11	11	12	6	14	14
Transportation ticket and reservation agents		6	6	92	4	109	64	41	29	15	8	56	44	—	—
Recognizers		397	394	990	963	486	479	201	190	40	40	214	214	—	—
Information clerks, n.e.c.		45	32	158	128	96	76	19	7	2	2	50	12	104	104
Records processing occupations, except financial		1 461	992	5 802	2 553	5 619	3 828	1 254	732	284	147	1 631	1 043	273	142
Classification clerks		28	28	29	21	4	—	—	—	—	—	—	—	8	8
Order clerks		26	26	75	43	52	45	2	2	7	7	—	—	—	—
Personal clerks, except payroll and timekeeping		391	268	2 237	932	1 340	811	287	91	98	36	256	141	91	55
Library clerks		124	123	705	508	734	624	206	191	83	66	198	171	41	32
File clerks		6	6	10	6	58	2	—	—	—	—	52	52	6	6
Records clerks		791	458	2 517	926	3 164	2 101	730	427	89	38	1 034	608	125	47
Financial records processing occupations		95	83	229	117	258	200	22	16	7	7	50	34	2	2
Bookkeepers, accounting, and auditing clerks		2 219	2 191	10 974	8 382	5 975	4 476	3 140	2 382	707	500	2 130	1 508	1 093	876
Payroll and timekeeping clerks		2 099	1 864	7 320	5 938	4 046	3 232	2 168	1 823	363	305	1 533	1 137	760	661
Billing clerks		241	224	2 359	1 520	1 047	755	827	484	241	103	1 002	706	251	170
Cost and rate clerks		78	78	741	438	246	213	69	38	66	66	102	82	30	28
Billing, posting, and calculating machine operators		68	28	418	185	546	284	37	17	33	24	161	121	39	12
Duplicating machine operators		29	25	136	101	71	32	39	20	4	2	32	25	13	5
Mail preparing and paper handling machine operators		83	47	238	140	553	372	147	69	10	10	284	178	11	9
Office machine operators, n.e.c.		41	29	108	65	314	245	92	28	—	—	211	119	9	9
Communications equipment operators		42	18	120	10	77	6	—	—	—	—	—	—	—	—
Telephone operators		158	143	552	505	470	457	177	167	10	10	62	48	2	2
Mail and message distributing occupations		150	143	527	498	450	446	177	167	42	42	212	207	43	43
Postal clerks, except mail carriers		—	—	19	7	11	11	—	—	—	—	—	—	—	—
Mail carriers, postal service		—	—	6	—	9	—	—	—	—	—	—	—	—	—
Mail clerks, except postal service		132	65	980	366	745	292	242	102	66	30	231	72	101	67
Messengers		108	59	798	324	585	218	205	98	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks		24	6	182	42	160	74	37	4	—	—	—	—	—	—
Dispatchers		6 473	3 148	35 315	6 396	32 617	9 640	8 321	1 724	2 079	399	7 534	2 411	15	15
Production coordinators		35	15	365	98	503	228	46	9	8	8	—	—	—	—
Traffic, shipping, and receiving clerks		1 451	789	8 583	1 736	11 489	3 470	2 771	339	532	122	3 408	979	11	11
Stock and inventory clerks		1 953	8 402	1 371	3 378	3 578	976	135	990	477	82	603	161	323	104
Meter readers		2 176	1 080	14 825	2 373	11 355	3 547	3 618	990	765	121	2 009	732	568	45
Weights, measurers, and checkers		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Samplers		93	59	808	115	183	49	88	6	24	6	27	13	13	13
Expeditors		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.		666	383	2 133	632	5 222	1 304	776	222	256	62	1 216	411	159	57
Adjusters and investigators		99	47	146	45	287	131	21	11	6	—	178	96	15	8
Insurance adjusters, examiners, and investigators		405	170	2 286	705	1 087	356	300	131	60	13	382	129	61	29
Investigators and adjusters, except insurance		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Equality clerks, social welfare		309	113	2 165	668	1 044	334	279	110	60	13	368	121	60	28
Bill and account collectors		96	57	121	37	36	7	11	10	—	—	8	8	—	—
Miscellaneous administrative support occupations		3 270	2 564	17 175	10 465	15 589	11 377	5 123	3 016	905	511	5 728	3 983	876	634
General office clerks		1 975	1 631	9 402	5 810	7 201	5 862	3 179	2 085	457	219	2 515	2 083	465	340
Bank tellers		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Photocopyers		—	—	—	—	—	—	—	—	—	—	—	—	—	—
File-clerks		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Deputy clerks		591	536	20	20	70	55	18	18	—	—	—	—	—	—
Seasonal clerks		177	107	3 633	3 470	2 331	3 119	422	598	266	266	1 224	1 127	191	175
Truckers, sales		5	5	10	488	1 736	1 230	286	132	38	10	600	356	128	128
Administrative support occupations, n.e.c.		522	265	3 102	723	3 222	1 068	1 018	163	144	16	1 356	396	168	168

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.

Transportation equipment

United States	Electrical machinery, equipment, and supplies—Con.		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		Cycles and miscellaneous transportation equipment	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	2 429	424	32 601	4 092	11 350	1 735	6 549	943	1 277	153	3 514	574	1 087	160
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	508	47	7 830	473	4 118	236	2 637	145	311	—	1 744	179	281	2
Supervisors, protective service occupations	30	—	501	—	340	24	164	—	32	—	18	29	17	—
Supervisors, firefighting and fire prevention occupations	—	—	87	—	74	—	55	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	30	—	414	—	246	24	109	26	32	—	164	29	17	—
Firefighting and fire prevention occupations	—	—	306	—	521	17	190	26	16	—	104	—	20	—
Fire inspection and fire prevention occupations	—	—	160	—	45	—	—	—	10	—	—	—	8	—
Freightlifting occupations	—	—	146	—	456	17	274	6	6	—	104	—	12	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	478	47	7 023	473	3 257	195	2 009	119	263	—	1 458	150	244	2
Crossing guards	—	—	6	—	—	—	—	—	—	—	6	—	—	—
Guards and police, except public service	473	47	7 007	469	3 257	195	1 987	119	263	—	1 452	150	244	2
Protective service occupations, n.e.c.	5	—	10	4	—	—	17	—	—	—	—	—	—	—
Service occupations, except protective and household food preparation and service occupations	1 921	377	24 771	3 619	7 232	1 499	3 912	798	966	153	1 770	395	806	158
Food preparation and service occupations	63	55	921	687	803	513	293	127	50	21	150	79	16	9
Supervisors, food preparation and service occupations	—	—	45	21	88	33	—	—	—	—	2	—	—	—
Bartenders	—	—	14	—	—	—	—	—	—	—	—	—	—	—
Waiters and waitresses	13	13	179	157	80	69	23	16	9	6	13	6	16	9
Cooks, except short order	22	22	327	226	170	12	174	7	18	10	39	26	—	—
Short-order cooks	—	—	—	—	6	—	—	—	6	—	—	—	—	—
Food counter, fountain and related occupations	2	—	18	—	6	—	27	17	12	—	5	5	—	—
Kitchen workers, food preparation	—	—	82	82	125	8	11	11	—	—	45	24	—	—
Waiters' and waitresses' assistants	—	—	70	44	295	189	35	13	5	5	39	18	—	—
Miscellaneous food preparation occupations	26	20	186	157	—	—	—	—	3	3	—	—	—	—
Health service occupations	15	15	176	93	54	34	70	29	—	—	—	—	—	—
Dental assistants	—	—	22	8	21	6	—	—	—	—	—	—	—	—
Health aides, except nursing	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nursing aides, orderlies, and attendants	15	15	154	85	33	28	49	29	3	3	1 559	310	778	145
Cleaning and building service occupations, except household	1 834	302	23 369	2 721	6 237	910	3 444	618	898	120	81	13	8	—
Supervisors, cleaning and building service workers	27	—	300	6	161	14	95	13	25	16	34	17	30	—
Maid and housemen	112	31	1 050	186	60	60	384	136	55	16	1 444	280	738	145
Janitors and cleaners	1 688	267	21 934	2 521	5 820	836	2 974	441	798	20	—	—	2	—
Elevator operators	—	—	85	8	—	—	6	5	20	20	—	—	—	—
Pest control occupations	7	—	—	—	—	—	—	—	15	9	61	6	12	4
Personal service occupations	9	2	305	118	138	42	105	24	6	6	—	—	—	—
Supervisors, personal service occupations	—	—	5	—	34	5	6	—	—	—	—	—	—	—
Barbers	—	—	6	—	—	—	—	—	—	—	—	—	—	—
Hairdressers and cosmetologists	—	—	29	17	21	7	—	—	—	—	14	—	—	—
Attendants, amusement and recreation facilities	—	—	22	8	—	—	—	—	—	—	22	—	4	—
Bookies	7	—	18	5	9	—	21	—	—	—	14	—	—	—
Bookies' assistants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	6	6	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Uniformed service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	—	—	22	18	16	2	13	13	9	9	6	6	8	—
Child care workers, n.e.c.	2	2	203	70	47	24	34	—	—	—	5	—	—	—
Personal service occupations, n.e.c.	—	—	35	—	271	20	230	51	12	—	85	6	34	—
Farming, forestry, and fishing occupations	162	88	402	35	—	—	—	—	—	—	—	—	—	—
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	97	73	—	—	6	6	37	28	—	—	—	—	—	—
Related agricultural occupations	61	15	334	26	190	14	22	6	12	—	78	6	14	—
Supervisors, related agricultural occupations	2	2	13	—	16	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	59	13	303	24	174	14	22	6	12	—	71	6	14	—
Animal caretakers, except farm	—	—	16	—	—	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	2	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction for meaning of symbols, see appendix A for definitions of terms, see appendix A] **1980—Con.**

For meaning of symbols, see introduction for definitions of terms, see appendix A

United States

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.
Forestry and logging occupations
Supervisors, forestry and logging workers
Forestry workers, except logging
Timber cutting and logging occupations
Fishers, hunting, and trappers
Captains and other officers, fishing vessels
Fishers
Hunters and trappers
Precision production, craft, and repair occupations
Mechanics and repairers
Supervisors, mechanics and repairers
Mechanics and repairers, except supervisors
Vehicle and equipment mechanics and repairers
Automobile mechanics
Bus, truck, and stationery engine mechanics
Aircraft mechanics
Small engine repairers
Automobile body and related repairers
Aircraft mechanics, except engine
Heavy equipment mechanics
Farm equipment mechanics
Industrial machinery repairers
Machinery maintenance occupations
Electrical and electronic equipment repairers
Electronic repairers, communications and industrial equipment
Data processing equipment repairers
Household appliance and power tool repairers
Telephone line installers and repairers
Telephone installers and repairers
Miscellaneous electrical and electronic equipment repairers
Heating, air conditioning, and refrigeration mechanics
Miscellaneous mechanics and repairers
Camera, watch, and musical instrument repairers
Locksmiths and safe repairers
Office machine repairers
Mechanical controls and valve repairers
Electronic installers and repairers
Milkmaids
Specialized mechanics and repairers, n.e.c.
Not specified mechanics and repairers
Construction trades
Supervisors, construction occupations
Supervisors, brickmasons, stonemasons, and tile setters
Supervisors, carpenters and related workers
Supervisors, electricians and power transmission installers
Supervisors, painters, paperhangers, and plasterers
Supervisors, plumbers, pipefitters, and steamfitters
Supervisors, n.e.c.
Construction trades, except supervisors
Brickmasons and stonemasons
Tile setters, hard and soft
Carpet installers
Carpenters
Drywall installers
Electricians
Electrical power installers and repairers
Painters, construction and maintenance
Paperhangers

Manufacturing, durable goods (Con)

Transportation equipment

Ship and boat building and repairing

Railroad locomotives and equipment

Guided missiles, space vehicles, and parts

Cycles and miscellaneous transportation equipment

Electrical machinery, equipment, and supplies—Con.	Motor vehicles and motor vehicle equipment	Aircraft and parts	Ship and boat building and repairing	Railroad locomotives and equipment	Guided missiles, space vehicles, and parts	Cycles and miscellaneous transportation equipment
Total	Total	Total	Total	Total	Total	Total
Female	Female	Female	Female	Female	Female	Female
35	7	64	11	—	—	20
12	—	10	—	—	—	10
23	—	54	11	—	—	10
38	68	107	6	—	7	—
5	8	52	6	—	—	—
20	60	48	—	—	—	—
250 504	166 649	136 375	5 571	16 614	25 237	11 818
85 209	39 448	28 527	651	4 109	4 444	2 397
756	1 784	1 307	31	64	323	1 013
39 643	37 664	27 220	82	4 027	4 310	170
29 120	24 078	4 592	109	3 310	3 310	170
5 390	999	488	20	236	1 159	2 358
164	169	1 673	15	15	198	288
533	14 964	74	23	9	—	13
3 286	65	1 667	49	38	547	24
51	59	8	6	18	11	267
1 189	7 615	110	12	353	23	55
108	207	513	16	44	91	17
17 895	3 252	8 634	202	524	6	2
2 247	500	1 662	67	82	20	386
1 746	4 038	1 908	—	278	115	82
793	1 851	1 617	54	69	546	39
185	262	20	18	18	163	11
83	14	33	11	25	—	11
166	41	80	—	12	—	21
519	1 870	158	2	179	18	9
647	407	355	—	15	120	—
21 893	5 389	11 567	242	1 326	166	—
61	54	11	6	7	1 554	8
71	43	30	—	—	127	95
33	73	19	—	—	57	—
210	40	58	—	—	24	—
40	9	—	—	37	40	—
12 511	18	18	—	—	56	5
6 041	19	222	—	495	135	—
2 926	306	9 610	218	501	615	160
—	39	1 571	18	278	51	75
30 372	12 330	58 303	2 950	4 167	627	345
663	435	3 650	2	56	2 413	2 605
2	—	—	—	—	138	216
314	48	634	—	—	11	72
17	194	854	—	18	10	—
6	4	565	—	23	89	3
7	37	1 043	—	—	7	21
332	152	554	2	—	—	5
29 709	11 895	54 653	2 948	15	41	43
425	180	62	—	53	2 255	2 533
23	5	81	11	14	—	17
103	12	124	68	—	40	5
2 187	1 451	17 868	705	14	6	94
18	5	26	14	405	334	18
235	5 881	11 427	439	1 305	—	993
38	2	97	—	—	114	10
2	2	2	—	—	15	2
2 985	674	5 073	472	375	194	568
—	—	—	—	—	15	235

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Manufacturing, durable goods—Con.

United States	Transportation equipment									
	Electrical machinery, equipment, and supplies—Con.		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Not specified electrical machinery, equipment, and supplies										
138	23	11	8 294	55	34	20	23	6	740	12
Plasterers					1 942		16 408	767		
Construction trades, except supervisors—Con.										
Plumbers, pipefitters, and steamfitters										
Concrete and terraazzo finishers										
Glaziers										
Insulation workers										
Paving, surfacing, and tamping equipment operators										
Roofers										
Sheetmetal duct installers										
Structural metal workers										
Drillers, earth										
Construction trades, n.e.c.										
Supervisors, extractive occupations										
Drillers, oil well										
Explosives workers										
Mining machine operators										
Mining occupations, n.e.c.										
Precision production occupations										
Supervisors, production occupations										
Precision metalworking occupations										
Tool and die makers										
Precision assemblers, metal										
Machinists										
Boilermakers										
Precision grinders, filers, and tool sharpeners										
Patternmakers and model makers, metal										
Lay-out workers										
Precious stones and metals workers (jewelers)										
Engravers, metal										
Sheet metal workers										
Miscellaneous precision metal workers										
Precision woodworking occupations										
Patternmakers and model makers, wood										
Cabinet makers and bench carpenters										
Furniture and wood finishers										
Miscellaneous precision woodworkers										
Precision textile, apparel, and furnishings machine workers										
Dressmakers										
Tailors										
Upholsterers										
Shoe repairers										
Apparel and fabric patternmakers										
Miscellaneous precision apparel and fabric workers										
Precision workers, assorted materials										
Hand molders and shapers, except jewelers										
Patternmakers, lay-out workers, and cutters										
Optical goods workers										
Dental laboratory and medical appliance technicians										
Bookbinders										
Electrical and electronic equipment assemblers										
Miscellaneous precision workers, n.e.c.										
Precision food production occupations										
Butchers and meat cutters										
Bakers										
Food batchmakers										
Precision inspectors, testers, and related workers										
Inspectors, testers, and graders										
Adjusters and calibrators										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.									
United States									
Transportation equipment									
Electrical machinery, equipment, and supplies—Con.									
Not specified electrical machinery, equipment, and supplies									
Total		Male		Female		Total		Male	
Total		Male		Female		Total		Male	
523	36	2 112	69	1 228	73	617	23	165	2
9	—	64	—	31	—	—	—	—	—
501	36	1 786	36	1 071	73	474	12	133	2
13	—	91	—	48	—	68	—	7	—
50 471	33 861	609 444	123 101	162 403	35 963	89 482	7 439	35 203	2 026
45 798	32 026	519 126	112 457	147 477	33 725	69 094	5 664	28 084	1 704
12 405	7 056	194 300	37 685	74 833	18 443	2 384	2 384	9 194	707
2 008	740	79 586	11	29 055	4 350	3 676	12	3 295	180
269	56	8 128	266	145	55	89	332	180	100
314	89	7 450	426	377	377	668	59	433	19
44	7	642	58	2 245	118	87	47	186	19
623	275	24 631	6 877	2 981	544	289	16	659	15
17	2	427	79	33	7	37	16	23	15
153	48	4 553	760	3 186	619	303	28	374	49
489	199	23 367	2 343	11 471	2 488	1 993	162	1 278	57
18	6	1 014	42	475	19	92	8	870	196
6	—	117	—	576	17	42	—	38	—
75	38	9 257	292	898	106	76	—	21	—
104	71	2 039	639	2 786	517	182	—	114	29
690	216	7 599	1 094	3 886	314	2 341	106	243	14
260	86	4 063	1 052	636	115	394	44	513	21
370	104	1 199	177	1 357	92	83	10	136	12
35	12	1 698	82	1 191	38	31	—	35	—
25	14	549	28	702	69	1 833	52	138	9
46	13	854	173	673	42	618	19	204	20
14	2	23	13	12	4	7	—	51	—
26	5	258	118	530	35	56	—	39	—
6	6	134	—	24	—	37	4	5	—
286	185	704	177	101	7	496	4	1	—
264	172	500	102	889	352	135	53	6	—
9	13	53	27	646	223	109	42	58	6
13	13	53	27	71	15	4	4	16	6
97	61	134	37	139	106	7	—	411	98
14	14	4 920	4 004	33	8	15	7	23	45
10	—	64	6	744	526	1 709	659	50	6
10	—	25	17	9	—	51	4	24	9
46	23	4 420	3 795	7	—	—	—	367	296
—	—	34	2	452	392	—	—	—	—
—	—	15	2	3	3	357	311	—	—
3	—	76	30	12	—	—	—	270	—
24	24	275	132	—	—	5	—	—	—
9 174	5 770	98 778	20 285	245	131	1 296	344	7	7
111	102	1 189	534	36 600	7 864	9 782	1 207	34	45
57	33	471	231	147	540	86	26	4 944	457
19	14	319	54	96	42	14	14	1 121	1 121
102	67	1 229	67	143	76	10	10	72	25
20	9	183	47	472	13	39	4	6	5
64	210	356	76	133	35	9	—	158	21
484	—	12 201	1 139	4 006	504	73	14	36	—
—	—	213	17	37	2	11	82	393	13
—	—	—	—	—	—	—	—	48	—
—	—	—	—	—	—	—	—	737	—
—	—	—	—	—	—	—	—	12	—

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Precision production occupations—Con.

Plant and system operators
Water and sewage treatment plant operators
Power plant operators
Stationary engineers
Miscellaneous plant and system operators
Operators, fabricators, and laborers
Machine operators, assemblers, and inspectors
Machine operators and tenders, except precision
Metalworking and plastic working machine operators
Lathe and turning machine set-up operators
Milling and turning machine operators
Milling and planing machine operators
Planing and stamping press machine operators
Rolling machine operators
Drawing and boring machine operators
Grinding, abrading, buffing, and polishing machine operators
Forging machine operators
Heat treating machine operators
Miscellaneous metal, plastic, stone, and glass working machine operators
Fabricating machine operators, n.e.c.
Metal and plastic processing machine operators
Molding and casting machine operators
Metal planing machine operators
Heat treating equipment operators
Miscellaneous metal and plastic processing machine operators
Woodworking machine operators
Wood lathe, routing, and planing machine operators
Shaping machine operators
Shaping and planing machine operators
Nailing and nailing machine operators
Miscellaneous woodworking machine operators
Printing machine operators
Photoengraving and lithographers
Typesetters and compositors
Miscellaneous printing machine operators
Textile, apparel, and furnishings machine operators
Winding and twisting machine operators
Knitting, looping, taping, and weaving machine operators
Textile cutting machine operators
Textile sewing machine operators
Shoe machine operators
Pressing machine operators
Laundering and dry cleaning machine operators
Miscellaneous textile machine operators
Machine operators, assorted materials
Cementing and gluing machine operators
Packaging and filling machine operators
Extruding and forming machine operators
Mixing and blending machine operators
Separating, filtering, and dewatering machine operators
Compressing and compacting machine operators
Painting and paint spraying machine operators
Roasting and baking machine operators, food
Washing, cleaning, and picking machine operators

Table A
Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Point estimates based on a sample: see Introduction. For meaning of symbols, see appendix A]

United States

United States

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.

Machine operators, assemblers, and inspectors—Con.

Machine operators and tenders, except precision—Con.

Machine operators, assorted materials—Con.

Folding machine operators

Press, roll, and open operators, except food

Crimping and grinding machine operators

Slitting and cutting machine operators

Motion picture projectors

Photographic process machine operators

Miscellaneous machine operators, n.e.c.

Machine operators, not specified

Fabricators, assemblers, and hand working occupations

Welders and cutters

Solders and brazers

Assemblers

Hand cutting and trimming occupations

Hand molding, casting, and forming occupations

Hand painting, coating, and decorating occupations

Hand engraving and printing occupations

Hand grinding and polishing occupations

Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers

Production inspectors, checkers, and examiners

Production testers

Production samplers and weighers

Grocers and sorters, except agricultural

Transportation and material moving occupations

Motor vehicle operators

Supervisors, motor vehicle operators

Truck drivers, heavy

Truck drivers, light

Driver-sales workers

Bus drivers

Taxicab drivers and chauffeurs

Parking lot attendants

Motor transportation occupations, n.e.c.

Rail transportation occupations

Railroad conductors and yardmasters

Locomotive operating occupations

Railroad brake, signal, and switch operators

Rail vehicle operators, n.e.c.

Water transportation occupations

Ship captains and mates, except fishing boats

Sailors and deckhands

Marine engineers

Bridge, lock, and lighthouse tenders

Material moving equipment operators

Supervisors, material moving equipment operators

Operating engineers

Longshore equipment operators

Hoist and winch operators

Crane and tower operators

Excavating and loading machine operators

Grader, dozer, and scraper operators

Industrial truck and tractor equipment operators

Miscellaneous material moving equipment operators

Transportation equipment

Electrical machinery, equipment, and supplies—Con.

Not specified electrical machinery, equipment, and supplies

Motor vehicles and motor vehicle equipment

Aircraft and parts

Ship and boat building and repairing

Railroad locomotives and equipment

Guided missiles, space vehicles, and parts

Cycles and miscellaneous transportation equipment

	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Electrical machinery, equipment, and supplies—Con.	170	71	292	70	30	13	—	10	—	—	6	—
Not specified electrical machinery, equipment, and supplies	15	10	4 266	137	1 325	363	—	193	6	—	131	27
Machine operators, assemblers, and inspectors—Con.	280	163	1 264	95	1 132	131	5	98	131	11	132	6
Machine operators and tenders, except precision—Con.	16	9	4 057	823	1 553	822	142	433	36	45	376	117
Machine operators, assorted materials—Con.	108	91	391	192	602	349	39	48	31	130	10	3
Folding machine operators	2 882	2 968	54 391	12 616	18 177	3 799	620	2 238	2 197	521	2 885	712
Press, roll, and open operators, except food	25 555	19 590	265 040	61 259	47 678	14 231	45 926	16 694	822	3 527	13 836	3 361
Crimping and grinding machine operators	1 309	571	50 793	3 999	8 432	953	36 828	12 335	391	1 118	4 405	304
Slitting and cutting machine operators	1 926	1 730	963	399	455	399	69	3 521	26	443	32	19
Motion picture projectors	22 198	17 202	211 706	56 520	37 955	12 561	5 947	3 521	384	2 972	9 052	2 935
Photographic process machine operators	36	28	203	67	212	18	32	21	—	7	7	—
Miscellaneous machine operators, n.e.c.	32	28	108	117	65	63	2 894	743	14	37	78	48
Machine operators, not specified	2	2	26	—	88	43	7	6	10	22	55	55
Fabricators, assemblers, and hand working occupations	42	33	504	136	276	172	81	14	34	22	7	—
Welders and cutters	7 838	5 380	59 690	13 533	25 166	5 529	4 725	2 200	175	5 834	1 760	348
Solders and brazers	5 675	4 220	55 163	12 480	22 295	5 170	4 024	1 817	154	4 642	1 604	338
Assemblers	2 028	1 052	4 040	857	2 699	275	676	361	15	1 145	127	13
Hand cutting and trimming occupations	12	12	138	43	31	9	—	—	—	6	13	—
Hand molding, casting, and forming occupations	112	96	349	153	141	75	25	22	6	41	16	10
Hand painting, coating, and decorating occupations	—	—	—	—	—	—	—	—	—	—	—	—
Hand engraving and printing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Hand grinding and polishing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	—	—	—	—	—	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	1 421	334	51 987	2 832	6 445	381	8 362	3 370	93	1 360	2 236	178
Production inspectors, checkers, and examiners	599	49	17 244	855	2 514	149	2 298	377	15	556	859	40
Production testers	—	—	33	3	10	—	5	—	—	—	4	—
Production samplers and weighers	346	20	11 767	327	1 709	42	1 726	295	15	361	591	13
Grocers and sorters, except agricultural	169	10	1 878	173	438	55	293	39	—	73	191	12
Transportation and material moving occupations	15	7	155	19	46	17	14	14	—	38	24	—
Motor vehicle operators	59	12	3 190	18	54	16	20	3	—	—	49	15
Supervisors, motor vehicle operators	—	—	66	9	252	19	254	26	—	84	7	—
Truck drivers, heavy	—	—	40	—	5	—	—	—	—	—	—	—
Truck drivers, light	—	—	—	—	—	—	—	—	—	—	—	—
Driver-sales workers	—	—	235	16	48	14	78	308	—	19	—	—
Bus drivers	6	6	21	10	4	4	31	40	—	—	—	—
Taxicab drivers and chauffeurs	6	—	151	6	44	10	19	136	—	19	—	—
Parking lot attendants	—	—	—	—	—	—	9	—	—	—	—	—
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Rail transportation occupations	—	—	—	—	—	—	—	—	—	—	—	—
Railroad conductors and yardmasters	—	—	—	—	—	—	—	—	—	—	—	—
Locomotive operating occupations	—	—	—	—	—	—	—	—	—	—	—	—
Railroad brake, signal, and switch operators	—	—	—	—	—	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Water transportation occupations	—	—	—	—	—	—	—	—	—	—	—	—
Ship captains and mates, except fishing boats	—	—	—	—	—	—	—	—	—	—	—	—
Sailors and deckhands	—	—	—	—	—	—	—	—	—	—	—	—
Marine engineers	—	—	—	—	—	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators	816	285	34 435	1 999	3 864	218	5 195	2 685	78	136	1 358	138
Supervisors, material moving equipment operators	39	7	1 367	67	241	9	219	97	8	22	44	4
Operating engineers	43	11	1 177	—	78	—	126	14	—	49	2	—
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators	—	—	—	—	—	—	—	—	—	—	—	—
Crane and tower operators	9	—	366	25	5	2	301	11	—	—	6	—
Excavating and loading machine operators	—	—	2 563	41	588	2	2 884	958	14	65	142	13
Grader, dozer, and scraper operators	—	—	88	3	16	1	10	2	—	2	16	—
Industrial truck and tractor equipment operators	—	—	51	876	1 650	75	767	19	—	12	867	55
Miscellaneous material moving equipment operators	227	50	22 261	876	1 650	75	767	943	37	102	276	59
	498	217	7 562	947	1 271	120	816	649	37	102	276	59

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods (1 on)														
		Transportation equipment												
Electrical machinery, equipment, and supplies—Con.		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles and parts		(cycles and miscellaneous transportation equipment		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
3 252	1 501	38 337	7 812	8 481	1 857	12 026	1 500	3 749	229	1 376	303	2 834	572	
13	—	81	—	30	—	36	—	—	—	9	—	7	—	
—	—	124	35	82	5	209	20	25	—	23	—	1	—	
37	6	163	29	142	30	1 142	114	57	—	8	—	32	5	
—	—	156	29	142	30	1 142	114	57	—	8	—	32	5	
—	—	7	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20	8	350	13	199	33	401	13	31	—	25	5	52	—	
174	36	1 076	193	679	171	1 500	188	553	30	90	34	115	13	
882	366	7 863	933	1 049	139	893	46	257	—	225	91	423	49	
6	—	68	8	6	—	6	—	—	—	—	—	—	—	
—	—	—	—	—	—	152	18	—	—	—	—	—	—	
238	82	3 734	430	346	38	120	18	31	—	89	41	108	4	
468	187	585	213	136	28	98	20	17	—	41	29	48	11	
170	91	3 476	282	561	67	517	8	209	—	95	21	248	34	
7	7	347	24	71	7	53	8	—	—	20	—	9	—	
26	11	2 675	290	1 466	80	725	58	172	11	7	—	68	13	
732	481	2 915	3 087	1 645	584	236	88	290	89	184	67	446	219	
1 361	578	19 302	3 088	4 118	808	6 836	965	2 364	99	785	106	1 681	273	
Employed persons 16 years and over—Con.														
Operators, fabricators, and laborers—Con.														
Hand packers and packagers														
Supervisors, handlers, equipment cleaners, and laborers														
Helpers, mechanics and repairers														
Helpers, construction and extractive occupations														
Helpers, construction trades														
Helpers, surveyor														
Helpers, extractive occupations														
Construction laborers														
Production helpers														
Freight, stock, and material handlers														
Garage mechanics														
Stewards														
Stock handlers and bidders														
Machine feeders and offbearers														
Freight, stock, and material handlers, n.e.c.														
Garage and service station related occupations														
Vehicle washers and equipment cleaners														
Hand packers and packagers														
Laborers, except construction														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, durable goods—Con.									
	Professional and photographic equipment, and watches					Miscellaneous manufacturing industries				
	Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Toys, amusement, and sporting goods	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	235 496	96 128	254 821	123 710	28 254	15 385	1 306	396	550 466	244 190
Managerial and professional specialty occupations	53 278	7 696	45 340	8 817	3 416	673	279	70	58 470	12 639
Executive, administrative, and managerial occupations	27 131	5 392	29 241	6 344	2 359	537	167	29	44 476	9 116
Legislators, administrative, and managerial occupations	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	1 067	197	1 453	264	155	26	—	—	—	—
Financial managers	847	265	894	337	119	46	—	—	—	—
Personnel and labor relations managers	—	—	—	—	—	—	—	—	—	—
Purchasing managers	422	63	340	41	28	—	—	—	—	—
Managers, marketing, advertising, and public relations	3 193	336	4 198	544	287	56	20	—	—	—
Administrators, education and related fields	19	14	18	6	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—
Managers, mail and superintendents	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	14 586	1 808	16 156	2 620	1 217	236	95	13	—	—
Self-employed	14 421	1 801	15 748	2 536	1 175	232	85	13	—	—
Salaries	165	7	408	84	42	4	10	—	—	—
Management related occupations	6 953	2 689	6 165	2 532	553	173	52	16	—	—
Accountants and auditors	2 874	1 182	2 910	1 134	281	72	19	6	—	—
Underwriters	—	—	—	—	—	—	—	—	—	—
Other financial officers	264	78	198	68	27	14	6	—	—	—
Management specialists	135	24	162	35	96	62	6	—	—	—
Personnel, training, and labor relations specialists	1 188	447	1 227	665	—	—	—	—	—	—
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	2 382	925	1 601	592	138	14	21	4	—	—
Construction inspectors	23	—	36	17	—	—	—	—	—	—
Inspectors and compliance officers, except construction	51	23	—	—	—	—	—	—	—	—
Management related occupations, n.e.c.	31	10	25	5	11	11	—	—	—	—
Professional specialty occupations	26 147	2 304	16 099	2 473	1 057	136	112	41	—	—
Engineers, architects, and surveyors	19 074	739	10 157	628	660	41	46	—	—	—
Architects	18	—	36	9	—	—	—	—	—	—
Engineers	19 048	731	10 115	622	660	41	37	—	—	—
Aerospace engineers	146	12	94	5	5	—	—	—	—	—
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—
Mining engineers	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	149	8	156	13	7	—	—	—	—	—
Chemical engineers	333	15	21	—	—	—	—	—	—	—
Nuclear engineers	144	7	62	—	—	—	—	—	—	—
Civil engineers	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	5 361	88	1 795	55	82	22	12	—	—	—
Industrial engineers	4 102	389	2 728	363	239	90	5	—	—	—
Mechanical engineers	1 989	14	1 126	12	90	—	—	—	—	—
Marine engineers and naval architects	12	—	7	—	—	—	—	—	—	—
Engineers, n.e.c.	6 402	174	4 062	174	224	19	13	—	—	—
Surveyors and mapping scientists	8	—	6	—	—	—	—	—	—	—
Mathematical and computer scientists	1 763	327	992	259	118	20	18	—	—	—
Computer systems analysts and scientists	1 232	200	529	136	70	6	11	—	—	—
Operations and systems researchers and analysts	456	91	344	85	46	12	—	—	—	—
Actuaries	—	—	—	—	—	—	—	—	—	—
Statisticians	49	22	100	38	2	2	7	—	—	—
Natural scientists, n.e.c.	26	14	19	—	—	—	—	—	—	—
Not specified manufacturing industries	260 975	98 585	420 464	176 333	420 464	176 333	420 464	176 333	420 464	176 333
Food and kindred product industries	32 224	6 259	58 470	12 639	58 470	12 639	58 470	12 639	58 470	12 639
Textile mill industries	24 973	4 932	44 476	9 116	44 476	9 116	44 476	9 116	44 476	9 116
Apparel, leather, and other durable goods industries	—	—	—	—	—	—	—	—	—	—
Chemical and allied products industries	—	—	—	—	—	—	—	—	—	—
Nonmetallic mineral products industries	—	—	—	—	—	—	—	—	—	—
Metals industries	—	—	—	—	—	—	—	—	—	—
Plastics, rubber, and leather industries	—	—	—	—	—	—	—	—	—	—
Stone, clay, and glass industries	—	—	—	—	—	—	—	—	—	—
Primary metal industries	—	—	—	—	—	—	—	—	—	—
Transportation equipment industries	—	—	—	—	—	—	—	—	—	—
Electrical, electronic, and other equipment industries	—	—	—	—	—	—	—	—	—	—
Instrument industries	—	—	—	—	—	—	—	—	—	—
Transportation and communication equipment industries	—	—	—	—	—	—	—	—	—	—
Other miscellaneous manufacturing industries	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Manufacturing, durable goods—Con.

United States

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con.

Natural scientists

Physicists and astronomers

Chemists, except biochemists

Atmospheric and space scientists

Geologists and geodesists

Physical scientists, n.e.c.

Agricultural and food scientists

Biological and life scientists

Forestry and conservation scientists

Medical scientists

Health diagnosing occupations

Physicians

Dentists

Veterinarians

Optometrists

Podiatrists

Health diagnosing practitioners, n.e.c.

Health assessment and training occupations

Registered nurses

Pharmacists

Dietitians

Therapists

Physicians' assistants

Teachers, postsecondary

Teachers, except postsecondary

Teachers, kindergarten and kindergarten

Teachers, elementary and secondary school

Teachers, special education

Teachers, n.e.c.

Counselors, educational and vocational

Librarians, archivists, and curators

Librarians

Archivists and curators

Social scientists and urban planners

Economists

Psychologists

Sociologists

Social scientists, n.e.c.

Professional and photographic equipment, and watches									
Scientific and controlling instruments					Watches, clocks, and clockwork operated devices				
Photographic equipment and supplies					Not specified professional equipment				
Miscellaneous manufacturing industries					Toys, amusement, and sporting goods				
Not specified manufacturing industries					Total				
Total	Female	Total	Female	Total	Total	Female	Total	Female	Total
822	94	1 737	565	1 899	226	6	27	—	721
187	20	260	17	260	6	—	—	—	54
482	74	1 039	328	1 517	192	—	27	—	574
12	—	—	—	—	—	—	—	—	15
55	—	—	—	—	—	—	—	—	—
11	—	21	—	23	—	—	—	—	—
9	—	6	—	—	—	—	—	—	—
61	21	409	196	82	28	—	—	—	20
5	—	55	24	17	—	—	—	—	39
12	2	265	59	52	—	—	—	—	7
6	2	120	32	44	—	—	—	—	26
—	—	17	14	—	—	—	—	—	8
2	—	51	13	8	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—
—	—	4	—	—	—	—	—	—	12
189	182	338	291	150	128	—	—	—	6
175	168	262	242	138	123	—	11	16	240
—	—	5	5	—	—	—	11	16	213
—	—	—	—	—	—	—	—	—	—
14	14	55	33	—	—	—	—	—	21
—	—	16	11	—	—	—	—	—	6
20	7	169	44	—	27	—	6	—	13
314	96	—	—	174	—	—	28	17	319
—	—	—	—	—	—	—	—	—	5
29	—	—	—	—	—	—	—	—	—
285	96	169	44	—	—	—	—	—	25
8	—	39	6	27	6	—	17	—	289
50	44	42	36	116	6	—	6	—	185
—	44	36	36	138	6	—	6	—	29
—	—	6	—	7	7	—	6	—	42
881	148	541	173	600	145	—	20	—	37
846	148	521	173	570	139	—	20	—	5
21	—	13	—	23	6	—	—	—	590
14	—	—	—	—	—	—	—	—	574
—	—	—	—	—	—	—	—	—	165
—	—	7	—	—	—	—	—	—	132
7	—	22	—	5	—	—	—	—	7
7	—	6	—	—	—	—	—	—	1
—	—	16	—	—	—	—	—	—	1
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
135	14	207	12	181	14	—	16	—	13
135	14	207	12	181	14	—	16	—	23
—	—	—	—	—	—	—	—	—	166
2 872	647	1 629	406	2 186	603	—	165	—	23
—	—	—	—	—	—	—	41	—	11
19	5	—	88	21	8	—	—	—	8 678
777	195	272	88	361	57	—	—	—	25
1 310	147	797	116	984	154	—	128	—	17
—	—	—	—	15	8	—	—	—	21
6	—	12	6	18	6	—	—	—	143
196	91	158	82	143	69	—	—	—	2 215
128	42	83	9	175	64	—	2	—	31
—	—	—	—	—	—	—	5	—	72
25	23	3	3	37	27	—	—	—	8
204	106	134	44	243	122	—	—	—	1 805
207	38	185	64	206	79	—	16	—	837
—	—	6	—	9	9	—	—	—	32
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.

United States	Professional and photographic equipment, and watches						Miscellaneous manufacturing industries						Not specified manufacturing industries					
	Scientific and controlling instruments		Optical and health supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Total		Toys, amusement, and sporting goods		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																		
Technical, sales, and administrative support occupations	62 595	32 270	71 342	41 080	41 158	19 810	5 650	3 598	294	160	110 908	65 287	87 208	50 467	52 487	26 962		
Technicians and related support occupations	19 142	3 606	16 747	5 090	11 699	2 051	588	171	59	27	7 357	1 446	5 902	1 134	4 351	943		
Health technologists and technicians	170	116	2 462	591	112	56	18	13	10	10	14	60	47	14	22	41		
Health laboratory technologists and technicians	76	53	432	242	54	43	—	—	—	—	14	14	14	14	—	8		
Dental hygienists	6	—	32	14	—	—	—	—	—	—	—	—	—	—	—	—		
Health record technicians and technicians	6	6	14	21	12	8	6	6	6	10	14	14	14	14	—	—		
Radiologic technicians	40	35	22	15	22	8	12	12	—	—	14	22	15	15	39	21		
Licensed practical nurses	42	22	1 936	285	24	5	—	—	—	—	4 536	780	3 790	632	2 567	520		
Health technologists and technicians, n.e.c.	13 217	2 218	8 873	2 655	5 826	869	379	74	37	12	4 982	126	79	75	4	13		
Engineering and related technologists and technicians	6 647	2 758	2 677	213	1 846	171	112	8	9	6	1 472	401	1 331	361	785	262		
Electrical and electronic technicians	51	19	2 53	6	24	14	6	—	—	—	1 920	238	1 647	192	1 779	150		
Industrial engineering technicians	220	12	183	22	2 506	576	87	26	—	—	12	5	7	—	2	2		
Mechanical engineering technicians	2 187	656	4 040	302	1 281	87	166	34	28	6	564	157	424	117	198	53		
Engineering technicians, n.e.c.	4 078	783	1 899	21	2	—	46	39	7	—	112	49	22	28	84	26		
Drafting occupations	14	—	1 279	669	1 498	384	8	8	—	—	112	41	221	87	105	27		
Surveying and mapping technicians	894	319	1 498	36	773	184	38	31	—	—	2 193	449	1 631	342	1 517	329		
Science technicians	29	14	271	147	725	752	145	45	5	5	—	—	—	—	50	—		
Biological technicians	206	102	919	486	4 263	752	—	—	—	—	—	—	—	—	—	—		
Chemical technicians	659	203	4 133	1 175	24	—	—	—	—	—	—	—	—	—	—	—		
Science technicians, n.e.c.	4 861	953	51	—	—	—	—	—	—	—	—	—	—	—	—	—		
Technicians, except health, engineering, and science	49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Airplane pilots and navigators	18	6	1 137	325	1 242	376	83	19	—	—	30	4	30	165	436	147		
Air traffic controllers	2 029	457	24	23	38	5	6	6	—	—	972	12	41	12	4	4		
Broadcast equipment operators	84	24	46	23	2 837	365	56	20	5	5	1 042	124	792	113	1 006	162		
Computer programmers	33	33	2 876	821	4 593	993	143	18	81	—	26 147	5 777	21 573	4 357	14 572	2 547		
Tool programmers, numerical control	2 648	333	11 806	2 505	4 593	993	686	18	6	—	2 429	861	1 833	323	1 102	309		
Legal assistants	5 551	721	72 78	159	564	72	114	18	6	—	2 723	241	1 264	202	861	274		
Technicians, n.e.c.	562	78	861	159	564	72	110	18	6	—	706	208	569	121	241	35		
Sales occupations	15	13	25	20	25	—	4	6	—	—	691	185	676	183	90	18		
Supervisors and proprietors, sales occupations	30	—	—	—	—	—	—	—	—	—	14	6	14	6	36	11		
Self-employed	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Sales representatives, finance and business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Real estate sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Advertising and related sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Sales representatives, commodities, except retail	4 723	511	10 685	2 188	3 794	57	551	106	69	—	22 107	4 452	18 384	3 414	12 801	1 887		
Sales engineers	917	23	140	—	—	—	47	—	5	—	411	12	405	—	476	—		
Sales representatives, mining, manufacturing, and wholesale	3 806	488	10 545	2 188	3 737	787	504	106	64	—	21 696	4 440	17 979	3 402	12 325	1 887		
Sales workers, retail and personal services	206	119	168	132	31	18	15	6	—	—	834	530	614	388	513	284		
Sales workers, commodities	65	21	16	12	31	18	8	—	—	—	101	6	71	6	91	2		
Sales counter clerks	6	6	13	44	123	109	7	7	—	—	25	10	15	25	25	8		
Cashiers	84	66	44	44	69	49	—	—	—	—	455	372	314	262	238	211		
Cashiers	51	26	93	49	12	—	—	—	—	—	216	122	182	100	127	56		
Street and door-to-door sales workers	—	—	—	—	—	—	—	—	—	—	37	20	32	20	32	7		
News vendors	15	—	25	6	12	12	—	—	—	—	86	63	66	49	66	49		
Sales related occupations	15	—	13	—	—	—	—	—	—	—	43	26	40	23	17	—		
Demonstrators, promoters and models, sales	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Sales support occupations, n.e.c.	37 902	27 943	42 789	33 485	24 866	16 766	4 376	3 284	154	133	77 404	58 404	59 733	44 976	33 564	23 472		
Administrative support occupations, including clerical	2 254	987	2 718	1 292	1 637	551	294	167	13	5	4 852	2 252	3 713	1 747	1 747	720		
Supervisors, administrative support occupations	874	533	1 184	720	763	311	92	67	—	—	2 229	1 369	1 333	1 103	901	465		
Supervisors, general office	185	54	54	29	157	97	26	24	—	—	166	59	504	325	276	129		
Supervisors, computer equipment operators	461	227	551	277	244	97	96	64	—	—	897	14	580	14	580	5		
Supervisors, financial records processing	13	7	882	10	43	10	—	—	—	—	1 546	306	1 217	232	543	12		
Supervisors, communications operators	721	166	1 442	882	433	117	82	36	13	—	2 373	1 647	1 742	1 214	711	457		
Chief communications operators	1 563	875	1 068	608	1 024	602	110	47	12	12	2 230	1 548	1 618	1 134	631	416		
Supervisors, distribution, scheduling, and adjusting clerks	—	—	—	—	—	—	105	5	—	—	2 143	99	124	80	80	—		
Computer equipment operators	1 507	52	1 30	100	44	6	—	—	—	—	—	—	—	—	—	—		
Computer operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Professional and photographic equipment, and watches						Miscellaneous manufacturing industries							
Scientific and controlling instruments		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Toys, amusement, and sporting goods		Not specified manufacturing industries	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
3 460	717	4 115	1 075	3 608	657	423	69	127	88	9 809	1 788	7 626	1 359
—	—	—	—	—	—	—	—	—	—	—	—	—	—
647	71	703	128	878	102	108	9	6	—	1 646	97	1 224	84
42	12	29	17	39	—	—	—	—	—	51	4	26	15
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
42	12	29	17	39	—	—	—	—	—	51	4	26	15
18	6	37	13	76	—	18	—	—	—	57	7	45	17
—	—	—	—	—	—	—	—	—	—	50	—	38	8
12	—	13	13	59	—	12	—	—	—	7	7	7	9
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
587	59	637	98	763	102	90	9	6	—	1 538	86	1 153	77
—	—	—	—	—	—	—	—	—	—	—	—	—	—
587	59	637	98	757	102	90	9	6	—	1 538	86	1 153	77
—	—	—	—	—	—	—	—	—	—	—	—	—	—
2 813	646	3 412	947	2 730	555	315	60	121	88	8 163	1 691	6 402	1 275
149	136	170	119	433	270	14	9	44	38	465	319	330	207
12	12	14	14	11	5	—	—	—	—	14	11	8	5
—	—	—	—	—	—	—	—	—	—	26	8	7	15
—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	11	7	37	44	39	12	7	17	17	65	32	51	32
45	45	72	37	75	28	—	—	22	16	216	139	172	101
—	—	—	—	—	—	—	—	—	—	13	7	—	11
—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	5	6	6	8	8	—	—	—	—	12	7	12	7
—	—	—	—	—	—	—	—	—	—	19	13	6	6
15	15	7	7	104	71	—	—	—	—	93	63	86	56
57	48	58	48	186	114	2	2	5	5	76	64	50	44
—	—	—	—	—	—	—	—	—	—	—	—	—	—
36	31	290	132	29	16	9	9	51	46	—	—	—	—
—	—	60	43	7	—	—	—	—	—	—	—	—	—
5	—	81	24	7	—	—	—	—	—	76	64	50	44
31	31	149	65	22	16	9	9	51	46	76	1 079	576	845
2 515	418	2 894	672	2 210	240	285	42	26	4	7 276	14	107	14
20	2	116	29	52	—	6	—	—	—	123	164	45	24
151	50	188	45	232	14	29	6	—	—	622	180	475	234
2 331	359	2 590	598	1 907	226	250	36	26	4	6 304	893	4 975	742
13	7	—	—	19	—	—	—	—	—	227	8	199	8
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
113	61	58	24	58	29	7	—	—	—	346	229	246	179
—	—	—	—	—	—	—	—	—	—	19	16	10	6
—	—	—	—	—	—	—	—	—	—	102	16	10	10
4	—	—	—	—	—	—	—	—	—	91	11	91	19
12	6	13	—	9	—	—	—	—	—	61	18	28	3
7	—	—	—	14	—	—	—	—	—	34	13	21	6
6	—	7	—	6	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	13	7	7	—	—	—	—	—	—	35	35	24	72
71	42	31	17	29	29	7	—	—	—	79	63	61	54
—	—	—	—	—	—	—	—	—	—	—	—	—	—
156	49	91	8	87	14	14	8	—	—	221	34	188	25
—	—	—	—	—	—	—	—	—	—	—	—	—	—
53	24	6	6	—	—	—	—	—	—	9	9	9	9
61	7	76	2	82	9	14	8	—	—	150	7	138	5
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
51	7	54	2	80	9	14	8	—	—	148	2	138	5
4	—	20	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample. See introduction for meaning of symbols. See introduction for definitions of terms. See appendix A.]

United States		Manufacturing, durable goods (con)									
		Professional and photographic equipment, and watches				Miscellaneous manufacturing industries				Not specified manufacturing industries	
		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Total		Toys, amusement, and sporting goods	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.											
Forestry and logging occupations											
Supervisors, forestry and logging workers	6	9	5	5	5	—	—	48	16	35	11
Timber harvesters and logging workers	—	—	—	—	—	—	—	22	7	—	—
Fishers, hunting and trapping occupations	6	9	5	5	5	—	—	26	9	12	2
Fishers, hunting and trapping	36	—	—	—	—	—	—	14	2	23	9
Captains and other officers, fishing vessels	8	—	—	—	—	—	—	—	—	6	2
Fishers	—	—	—	—	—	—	—	—	—	—	—
Hunters and trappers	28	—	—	—	—	—	—	8	2	—	—
Precision production, craft, and repair occupations											
Mechanics and repairers	37 826	44 226	12 434	24 782	2 355	7 723	3 337	103 079	24 400	85 754	19 603
Supervisors, mechanics and repairers	7 234	8 754	840	8 367	8	2 338	889	15 307	1 934	11 506	1 518
Mechanics and repairers, except supervisors	183	6 144	1 444	6 225	18	20	174	244	117	117	117
Vehicle and mobile equipment mechanics and repairers	7 051	6 610	835	8 193	607	2 318	889	15 063	1 934	11 333	1 519
Automobile mechanics	274	136	27	279	3	2	3	101	21	444	12
Bus, truck, and stationery engine mechanics	123	50	7	147	—	—	—	356	9	259	47
Aircraft engine mechanics	7	—	—	—	—	—	—	27	—	27	—
Small engine mechanics	81	25	5	12	—	—	—	77	—	77	—
Automobile body and related repairers	3	—	—	—	—	—	—	6	—	6	—
Aircraft mechanics, except engine	17	—	—	—	—	—	—	17	—	17	—
Heavy equipment mechanics	12	15	15	16	—	—	—	49	—	49	—
Farm equipment mechanics	26	40	40	98	—	—	—	23	—	23	—
Industrial machinery repairers	5	11	11	6	—	—	—	152	12	86	12
Machinery maintenance occupations	2 324	2 975	310	2 782	106	3	3	29	—	27	—
Mechanical and electronic equipment repairers	51	49	43	43	—	—	—	6 557	718	5 083	645
Electrical and electronic equipment repairers	962	356	95	559	46	32	7	232	11	186	4
Electronic repairers, communications and industrial equipment	401	132	12	230	18	18	—	504	70	368	57
Data processing equipment repairers	277	104	52	205	26	7	—	342	54	229	44
Household appliance and power tool repairers	73	30	14	41	—	—	—	36	4	41	4
Telephone line installers and repairers	—	4	4	—	—	—	—	65	9	64	9
Telephone installers and repairers	21	24	6	51	2	—	—	8	—	8	—
Miscellaneous electrical and electronic equipment repairers	190	62	11	32	7	7	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	169	84	—	135	—	—	—	33	3	26	—
Miscellaneous mechanics and repairers	3 271	3 010	394	4 395	455	19	815	92	2	79	2
Camera, watch, and musical instrument repairers	13	197	44	869	148	1 886	748	7 042	1 112	5 173	798
Locksmiths and safe repairers	30	7	—	12	—	—	—	1 152	299	1 119	293
Office machine repairers	313	6	—	552	31	10	10	24	—	24	5
Mechanical controls and valve repairers	—	8	—	12	—	—	—	29	—	24	5
Elevator installers and repairers	311	309	77	574	142	7	6	25	8	17	—
Refrigeration mechanics and repairers, n.e.c.	1 335	1 498	181	1 307	100	67	46	589	105	460	72
Not specified mechanics and repairers	1 073	991	92	1 038	34	38	5	3 327	540	2 096	332
Construction trades											
Supervisors, construction occupations	2 151	1 350	112	2 581	76	208	21	8 021	907	6 716	581
Supervisors, brickmasons, stonemasons, and tile setters	116	77	—	122	—	—	—	206	4	172	2
Supervisors, carpenters and related workers	5	8	—	5	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	44	24	—	34	8	—	—	33	—	33	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	—	44	—	37	—
Supervisors, plumbers, pipefitters, and steamfitters	67	45	—	2	—	—	—	—	—	—	—
Supervisors, n.e.c.	—	—	—	—	—	—	—	—	—	—	—
Construction trades, except supervisors	2 035	1 273	112	2 459	68	208	21	118	4	11	—
Brickmasons and stonemasons	10	11	3	16	—	—	—	11	—	11	—
Tile setters, hard and soft	—	—	—	—	—	—	—	31	—	91	2
Carpenters	—	—	—	—	—	—	—	7 815	903	6 544	579
Painters	205	294	—	455	—	—	—	64	4	47	4
Drywall installers	—	—	—	—	—	—	—	25	7	25	7
Electricians	362	547	54	444	—	—	—	126	—	126	—
Electrical power installers and repairers	—	—	—	—	—	—	—	1 506	54	1 506	2
Plumbers, pipefitters and steamfitters	—	—	—	—	—	—	—	35	—	35	—
Painters, except interior and exterior	—	—	—	—	—	—	—	1 006	—	1 006	—
Paperhangers	—	—	—	—	—	—	—	3	—	3	—
Not specified occupations	—	—	—	—	—	—	—	2 105	13	2 105	8
Not specified occupations	—	—	—	—	—	—	—	1 249	93	1 249	93
Not specified occupations	—	—	—	—	—	—	—	46	—	46	—
Not specified occupations	—	—	—	—	—	—	—	1 426	54	1 426	54
Not specified occupations	—	—	—	—	—	—	—	16	—	16	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

United States		Manufacturing, durable goods—Con.									
		Professional and photographic equipment, and watches				Miscellaneous manufacturing industries				Not specified manufacturing industries	
	Scientific and controlling instruments	Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Toys, amusement, and sporting goods	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.											
Construction trades, except supervisors—Con.											
Plasterers	447	9	—	512	7	—	—	—	—	6	—
Plumbers, pipefitters, and steamfitters	—	102	—	—	—	25	—	—	—	355	—
Concrete and terrazzo finishers	8	—	—	—	—	—	—	—	—	5	—
Glaziers	7	38	27	—	—	—	28	—	—	55	—
Insulation workers	—	5	—	101	—	—	—	—	—	27	—
Paving, surfacing, and tamping equipment operators	—	11	—	—	—	—	—	—	—	—	—
Roofers	—	9	—	—	—	—	—	—	—	8	—
Sheetmetal duct installers	2	—	—	—	—	—	—	—	—	18	—
Structural metal workers	18	2	—	—	—	—	—	—	—	30	—
Drillers, earth	—	—	—	—	—	—	—	—	—	37	—
Construction trades, n.e.c.	22	13	—	—	—	—	—	—	—	58	—
Extractive occupations	32	18	—	—	—	—	—	—	—	27	—
Supervisors, extractive occupations	6	—	—	—	—	—	—	—	—	15	—
Drillers, oil well	—	—	—	—	—	—	—	—	—	51	—
Explosives workers	19	—	—	—	—	—	—	—	—	6	—
Mining machine operators	—	5	—	—	—	—	—	—	—	20	—
Mining occupations, n.e.c.	7	13	—	—	—	—	—	—	—	13	—
Precision production occupations	28	36	104	13	829	5	177	169	8	79	697
Supervisors, production occupations	12	2	339	7	882	—	447	78	—	21	544
Precision metalworking occupations	8	5	917	3	984	1	532	66	—	7	738
Tool and die makers	1	474	48	942	42	405	—	8	—	9	462
Precision assemblers, metal	162	78	56	35	9	8	—	—	—	35	339
Machinists	5	366	395	2	212	43	—	21	—	1	204
Boilermakers	22	—	—	13	103	—	—	—	—	5	887
Precision grinders, filers, and tool sharpeners	116	—	—	40	—	16	—	—	—	51	—
Pattermakers and model makers, metal	197	—	—	149	—	55	—	—	—	99	—
Lay-out workers	56	7	—	20	—	—	—	—	—	2	188
Precious stones and metals workers (jewellers)	6	—	—	12	—	—	—	—	—	2	134
Engravers, metal	106	34	—	44	—	510	—	18	—	298	115
Sheet metal workers	605	14	—	7	469	32	—	37	—	17	863
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	—	821	28
Precision woodworking occupations	69	9	85	13	—	13	5	6	—	2	23
Pattermakers and model makers, wood	17	3	—	6	—	—	—	—	—	2	28
Cabinet makers and bench carpenters	27	4	43	7	—	8	—	—	—	1	232
Furniture and wood finishers	17	2	22	6	—	5	—	—	—	36	28
Miscellaneous precision woodworkers	8	—	—	—	—	—	—	—	—	209	34
Precision textile, apparel, and furnishings machine workers	34	29	388	38	—	20	—	6	—	334	11
Dressmakers	29	29	177	173	8	14	—	2	—	870	45
Tailors	—	—	13	8	—	5	—	2	—	1	484
Upholsterers	5	—	76	50	—	9	—	—	—	588	861
Shoe repairers	—	—	35	6	—	—	—	—	—	25	27
Apparel and fabric patternmakers	—	—	74	46	—	—	—	—	—	834	4
Miscellaneous precision apparel and fabric workers	—	—	13	6	—	—	—	—	—	20	23
Precision workers, assorted materials	6	4	15	851	1	84	30	6	—	16	140
Hand molders and shapers, except jewelers	228	55	151	53	466	—	—	—	—	15	8
Pattermakers, toy-out workers, and cutters	24	—	—	4	17	—	—	—	—	20	28
Optical goods workers	529	126	11	154	95	7	—	—	—	45	25
Dental laboratory and medical appliance technicians	34	—	3	822	—	—	—	—	—	36	31
Bookbinders	6	—	—	5	—	—	—	—	—	45	485
Electrical and electronic equipment assemblers	5	4	1	846	354	41	—	—	—	512	596
Miscellaneous precision workers, n.e.c.	218	118	192	50	481	23	—	—	—	271	38
Precision food production occupations	27	16	48	7	24	2	—	—	—	62	17
Butchers and meat cutters	27	16	42	7	17	2	—	—	—	28	13
Bakers	—	—	—	—	—	—	—	—	—	45	15
Food batchmakers	901	419	480	234	126	2	—	—	—	78	32
Precision inspectors, testers, and related workers	799	364	462	126	49	2	—	—	—	16	10
Inspectors, testers, and graders	102	35	—	126	49	1	761	6	—	42	3
Adjusters and calibrators	—	—	—	—	—	1	958	—	—	255	125
										213	90
										42	35

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con

(Data are estimates based on a sample and subject to sampling error. For meaning of symbols, see instructions. For definitions of terms, see appendix A.)

United States		Manufacturing durable goods (L)										Non-durable manufacturing industries									
		Professional and photographic equipment and services										Miscellaneous manufacturing industries									
		Scientific and controlling instruments		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Total		Total		Total		Total		Total		Total	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 14 years and over—Con.																					
Precision production, craft, and repair occupations—Con.																					
Precision production occupations—Con.																					
Repair and system operators																					
Power and energy operators																					
Transportation equipment operators																					
Miscellaneous plant and system operators																					
Machine operators, fabricators, and laborers																					
Machine operators, assemblers, and inspectors																					
Machine operators and plastic working machine operators																					
Machine operators and plastic working machine operators																					
Lathe and turning machine operators																					
Lathe and turning machine operators																					
Milling and planing machine operators																					
Planing and shaping machine operators																					
Rolling machine operators																					
Drilling and boring machine operators																					
Grinding, abrading, buffing, and polishing machine operators																					
Forging machine operators																					
Numerical control machine operators																					
Miscellaneous metal, plastic, stone, and glass working machine operators																					
Machine operators																					
Fabricating machine operators, n.e.c.																					
Metal and plastic processing machine operators																					
Molding and casting machine operators																					
Metal rolling machine operators																					
Heat treating equipment operators																					
Miscellaneous metal and plastic processing machine operators																					
Woodworking machine operators																					
Wood lathe, routing, and planing machine operators																					
Sawing machine operators																					
Shaping and joining machine operators																					
Nailing and lacing machine operators																					
Miscellaneous woodworking machine operators																					
Printing machine operators																					
Photoengraving and lithographers																					
Typesetters and compositors																					
Miscellaneous printing machine operators																					
Textile, apparel, and furnishings machine operators																					
Winding and twisting machine operators																					
Knitting, looping, taping, and weaving machine operators																					
Textile cutting machine operators																					
Textile sewing machine operators																					
Shoe machine operators																					
Pressing machine operators																					
Laundry and dry cleaning machine operators																					
Miscellaneous textile machine operators																					
Machine operators, assorted materials																					
Concentrating and gluing machine operators																					
Packaging and filling machine operators																					
Extruding and forming machine operators																					
Mixing and blending machine operators																					
Separating, filtering, and sorting machine operators																					
Compressing and compacting machine operators																					
Finishing and paint spraying machine operators																					
Finishing and painting machine operators																					
Finishing, cleaning, and packing machine operators																					
Finishing, cleaning, and packing machine operators																					

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Employed persons = Persons who are employed by others or self-employed. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States

Manufacturing, durable goods—Con.

Professional and photographic equipment, and watches												Miscellaneous manufacturing industries				Not specified manufacturing industries											
Scientific and controlling instruments				Optical and health services supplies				Photographic equipment and supplies				Watches, clocks, and clockwork operated devices				Not specified professional equipment				Total				Toys, amusement, and sporting goods			
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
18	7	202	187	69	38	—	—	—	—	—	—	347	251	278	185	276	190	—	—	—	—	—	—	—	—	—	
254	64	221	49	172	5	26	10	—	—	—	—	814	87	735	75	563	56	—	—	—	—	—	—	—	—	—	
32	30	234	234	37	6	22	8	—	—	—	—	629	86	514	76	760	116	—	—	—	—	—	—	—	—	—	
567	269	1 270	753	609	108	102	30	13	—	—	—	4 574	1 825	3 226	1 240	1 923	608	—	—	—	—	—	—	—	—	—	
—	—	—	—	18	8	—	—	—	—	—	—	—	—	—	—	—	96	—	—	—	—	—	—	—	—	—	
189	—	133	—	2 779	877	15	15	—	—	—	—	15 617	8 944	12 177	6 814	6 715	3 079	—	—	—	—	—	—	—	—	—	
3 888	1 837	5 346	3 420	2 490	631	449	986	20	—	—	—	44 211	23 426	34 465	17 514	13 844	—	—	—	—	—	—	—	—	—	—	
8 426	4 240	11 591	7 562	5 364	1 297	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
37 544	27 721	31 999	23 991	11 341	6 174	3 867	3 086	182	41	—	—	70 732	44 146	46 435	26 943	36 941	17 832	—	—	—	—	—	—	—	—	—	
2 411	938	1 769	662	574	71	163	32	75	2	—	—	6 079	1 082	4 846	6 961	646	—	—	—	—	—	—	—	—	—	—	
1 543	1 290	867	783	136	120	70	60	107	39	—	—	39 654	18 707	35 280	23 613	347	—	—	—	—	—	—	—	—	—	—	
33 213	25 345	28 589	22 016	10 510	5 933	3 391	2 806	—	—	—	—	56 602	39 654	56 002	23 613	28 314	16 568	—	—	—	—	—	—	—	—	—	
25	18	104	71	28	14	8	—	—	—	—	—	285	118	179	82	61	—	—	—	—	—	—	—	—	—	—	
16	14	245	176	33	6	47	32	—	—	—	—	2 266	412	2 423	305	232	—	—	—	—	—	—	—	—	—	—	
37	30	48	41	22	5	6	6	—	—	—	—	2 611	87	2 423	743	151	—	—	—	—	—	—	—	—	—	—	
30	21	21	21	—	—	29	29	—	—	—	—	525	210	509	210	34	—	—	—	—	—	—	—	—	—	—	
15	17	75	32	—	—	153	121	—	—	—	—	1 098	742	571	344	120	—	—	—	—	—	—	—	—	—	—	
54	34	281	189	38	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10 694	6 062	11 579	8 685	5 056	2 660	1 604	1 354	17	5	—	—	15 420	11 344	11 862	8 809	5 769	3 562	—	—	—	—	—	—	—	—	—	
7 867	4 745	10 259	7 916	4 023	2 208	1 466	1 248	17	5	—	—	13 266	10 007	10 273	7 852	4 923	3 091	—	—	—	—	—	—	—	—	—	
2 688	1 214	1 088	581	916	401	115	83	—	—	—	—	1 061	564	725	346	265	91	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	285	174	217	112	79	310	—	—	—	—	—	—	—	—	—	
36	25	12	12	—	5	15	15	—	—	—	—	808	597	647	499	502	—	—	—	—	—	—	—	—	—	—	
103	78	220	176	110	51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	12 098	1 370	8 681	705	8 180	790	—	—	—	—	—	—	—	—	—	
359	218	3 416	813	2 611	215	439	78	39	—	—	—	5 364	1 173	4 434	138	4 027	132	—	—	—	—	—	—	—	—	—	
2 018	663	1 332	229	941	54	164	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	78	—	813	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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—	—	—																									

(Data are estimates based on a sample, see Introduction. For meaning of symbols, see appendix A) **1980—Con.**

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machinists, equipment cleaners, helpers, and laborers
Supervisors; handlers, equipment cleaners, and laborers
C.C.
Helpers, construction trades
Helpers and repairers
Helpers, extractive occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations
Construction laborers
Production helpers
Fraght, stock, and material handlers
Garbage collectors
Shovelers
Stock handlers and bidders
Machine feeders and offbearers
Fraght, stock, and material handlers, n.e.c.
Garage and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Manufacturing, durable goods—Con.															
Professional and photographic equipment, and watches										Miscellaneous manufacturing industries					
Scientific and controlling instruments		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Total		Toys, amusement, and sporting goods		Not specified manufacturing industries	
										Total	Female	Total	Female		
4 907	2 223	10 330	6 972	3 689	1 282	1 178	887	40	11	35 690	19 338	26 159	13 799	22 388	8 141
5	-	11	-	-	-	5	-	-	-	47	-	33	-	123	21
52	19	23	6	16	7	-	-	-	-	41	19	41	19	47	5
19	1	17	-	16	7	-	-	-	-	142	19	119	19	51	-
-	-	-	-	-	-	-	-	-	-	142	19	119	19	42	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-
29	-	41	17	93	-	2	-	5	-	163	39	150	28	-	-
137	5	169	67	89	14	21	-	-	-	1 041	331	816	250	254	44
788	307	909	349	708	99	117	78	12	-	3 769	1 226	2 713	892	2 120	893
22	16	8	-	7	-	-	-	-	-	29	11	19	11	18	547
-	-	6	6	-	-	-	-	-	-	5	-	5	5	10	12
373	132	250	137	363	72	76	50	-	-	1 008	348	693	200	557	243
147	60	277	140	186	21	26	21	7	-	1 121	644	915	551	441	195
246	90	368	66	152	6	15	7	5	-	1 606	203	1 081	130	1 094	87
34	6	41	-	5	5	-	-	-	-	26	20	19	19	29	15
181	53	200	109	82	11	13	13	17	-	680	189	547	150	329	78
1 766	1 055	5 468	4 598	1 522	873	641	511	6	11	14 779	11 453	10 430	8 130	5 737	3 585
1 896	796	3 451	1 826	1 174	273	379	285	-	-	15 002	6 061	11 291	4 308	12 763	3 663

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Transportation, communications, and other public utilities									
	Transportation									
	Total		Railroads		Bus service and urban transit		Taxicab service		Trucking service	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	7 087 455	1 752 945	4 273 961	855 641	577 519	44 764	138 369	25 464	227 067	73 183
Managerial and professional specialty occupations	936 109	203 463	400 873	4 005	57 625	4 005	11 528	1 579	17 813	3 724
Executive, administrative, and managerial occupations	614 376	143 730	343 142	69 028	47 330	3 160	6 424	977	13 167	2 682
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—
Public administration	1 280	343	—	—	—	—	—	—	—	—
Administrators and officials, public administration	1 280	343	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	148	20	122	—	6	—	—	—	—	—
Financial managers	14 756	3 241	6 999	1 388	801	58	224	19	287	65
Personnel and labor relations managers	15 082	4 388	6 665	1 436	576	92	129	19	422	108
Purchasing managers	2 780	386	1 457	245	221	5	85	7	47	12
Managers, marketing, advertising, and public relations	29 241	4 801	14 032	1 976	1 595	51	58	24	343	61
Administrators, education and related fields	687	188	273	98	—	—	21	9	22	7
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	3 409	270	824	106	134	—	30	8	39	20
Postmasters and mail superintendents	31 150	13 522	31 150	13 522	—	—	—	—	—	—
Funeral directors	94	78	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	392 524	75 208	225 246	33 363	34 026	1 553	3 861	451	10 126	1 790
Self-employed	372 032	72 030	207 357	30 553	34 026	1 553	3 861	451	9 052	1 610
Management related occupations	20 492	3 178	17 889	2 830	—	—	—	—	1 074	180
Accountants and auditors	123 225	41 350	54 996	16 594	9 959	1 401	2 016	440	1 860	621
Underwriters	54 687	21 383	25 965	10 326	3 647	898	641	236	867	379
Other financial officers	105	31	54	7	16	—	—	—	10	—
Management analysts	6 090	1 765	2 458	628	419	53	23	17	71	2
Personnel, training, and labor relations specialists	3 639	1 146	1 087	304	114	22	35	17	7	—
Buyers, wholesale and retail trade except farm products	33 885	12 162	13 182	3 402	2 006	233	702	101	523	169
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	9 815	2 212	4 733	1 015	732	124	220	42	188	48
Construction inspectors, except construction	757	404	500	286	—	—	—	—	13	—
Inspectors and compliance officers, except construction	1 871	74	323	5	60	—	87	—	24	11
Management related occupations, n.e.c.	8 889	585	5 484	333	2 453	24	273	19	116	24
Professional specialty occupations	3 487	1 588	1 210	288	505	47	35	23	41	12
Engineers, architects, and surveyors	321 733	59 733	57 731	8 374	10 295	845	5 104	652	4 646	1 042
Architects	147 480	11 830	27 446	743	6 047	116	1 953	20	509	61
Engineers	1 126	83	26 468	20	53	—	103	7	—	—
Metallurgical and materials engineers	145 155	11 685	26 563	706	5 865	99	1 833	20	502	61
Chemical engineers	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	1 437	75	1 600	41	92	—	13	7	—	—
Mechanical engineers	171	9	48	2	—	—	—	—	—	—
Industrial engineers	424	16	158	4	6	—	—	—	—	—
Civil engineers	1 083	109	129	19	20	—	—	—	—	—
Surveyors and mapping scientists	2 109	70	17	—	—	—	—	—	—	—
Computer systems analysts and scientists	17 887	577	5 826	73	3 513	46	937	6	132	8
Operations and systems researchers and analysts	85 213	6	2 418	61	616	—	441	—	101	12
Actuaries	7 243	561	3 378	344	15	—	116	7	145	41
Mathematical scientists, n.e.c.	6 969	254	1 590	80	345	20	73	—	46	—
Surveyors and mapping scientists	12 923	836	2 558	53	568	13	239	—	66	—
Mathematical and computer scientists	1 199	62	415	17	129	—	15	—	—	—
Computer systems analysts and scientists	22 368	6 407	6 828	1 734	1 645	379	175	30	172	53
Operations and systems researchers and analysts	12 947	3 664	3 664	883	945	226	69	6	83	47
Actuaries	7 033	1 946	2 301	498	458	77	73	18	75	—
Statisticians	2 240	33	852	348	222	76	33	6	14	6
Mathematical scientists, n.e.c.	115	36	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Transportation, communications, and other public utilities

Transportation

	Transportation, communications, and other public utilities									
	Transportation									
	Total		Total		Railroads		Bus service and urban transit		Taxicab service	
	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
Employed persons 16 years and over—Con.										
Technical, sales, and administrative support occupations	2 521 707	1 260 435	1 437 099	565 934	106 780	33 549	21 703	35 025	9 177	5 003
Technicians and related support occupations	220 095	32 688	91 880	7 377	4 466	540	3 941	6 448	466	248
Health technologists and technicians	10 634	2 640	8 884	2 337	34	8	2 785	5 644	10	6
Clinical laboratory technologists and technicians	1 227	365	1 089	292	11	6	311	711	11	11
Dental hygienists	42	16	42	18	5	—	—	—	—	—
Health record technologists and technicians	26	16	6	6	—	—	—	—	—	—
Radiologic technicians	135	47	14	—	—	—	—	—	—	—
Licensed practical nurses	251	169	181	123	4	2	8	—	—	—
Health technologists and technicians, n.e.c.	8 933	2 045	7 552	1 898	14	—	2 459	4 831	60	10
Engineering and related technologists and technicians	66 203	11 296	10 209	752	2 204	113	624	344	—	—
Electrical and electronic technicians	27 246	1 774	5 232	179	746	25	233	167	—	—
Industrial engineering technicians	760	111	235	32	58	8	—	—	—	—
Mechanical engineering technicians	452	13	188	13	25	—	—	—	—	—
Engineering technicians, n.e.c.	13 835	3 002	1 633	154	309	15	147	52	—	—
Drafting occupations	20 704	6 078	2 050	233	802	65	131	59	—	—
Surveying and mapping technicians	3 206	851	851	141	264	—	113	26	—	—
Science technicians	6 100	1 032	1 180	297	105	4	19	—	—	—
Biological technicians	1 447	105	106	49	13	—	8	—	—	—
Chemical technicians	1 791	341	84	13	12	—	—	—	—	—
Science technicians, n.e.c.	3 862	586	990	235	80	4	11	—	—	—
Technicians, except health, engineering, and science	137 158	17 700	71 607	3 991	2 123	415	513	452	380	216
Airplane pilots and navigators	58 938	707	58 374	700	26	—	—	39	—	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	16 857	2 862	2 095	522	139	23	96	18	—	—
Computer programmers	22 537	7 858	6 669	1 885	1 191	300	178	114	343	216
Tool programmers, numerical control	390	138	114	33	38	6	—	—	—	—
Legal assistants	1 404	749	452	255	89	52	22	14	—	—
Technicians, n.e.c.	37 032	5 386	3 903	596	640	34	217	83	—	—
Sales occupations	215 920	107 680	139 005	72 454	4 649	456	3 325	6 056	363	122
Supervisors and proprietors, sales occupations	12 128	2 194	7 402	1 336	223	11	39	12	68	14
Salaried	11 959	2 051	6 614	1 220	223	11	39	207	37	14
Self-employed	199	143	848	116	—	—	—	47	31	—
Sales representatives, finance and business services	159 146	81 109	101 813	58 513	3 410	247	24	26	—	—
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	1 513	312	843	229	151	36	20	18	—	—
Securities and financial services sales occupations	19 873	7 616	395	180	47	11	4	8	—	—
Advertising and related sales occupations	137 760	73 181	100 575	58 104	3 212	200	—	—	—	—
Sales occupations, other business services	834	44	144	15	5	—	—	—	—	—
Sales representatives, commodities, except retail	834	44	144	15	5	—	—	—	—	—
Sales engineers	—	—	—	—	—	—	—	—	—	—
Sales representatives, milling, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	43 508	24 207	29 454	12 530	994	198	3 262	5 776	295	108
Sales workers, commodities	2 865	293	1 868	95	26	—	73	86	9	2
Sales counter clerks	515	257	371	182	31	—	3	31	—	—
Cashiers	36 737	21 597	25 362	11 137	906	170	3 182	5 652	286	106
Street and door-to-door sales workers	2 691	1 780	1 340	948	24	9	—	—	—	—
News vendors	680	278	493	174	38	19	4	4	—	—
Sales related occupations	304	126	132	51	17	—	—	—	—	—
Demonstrators, promoters and models, sales	58	75	48	25	—	—	—	—	—	—
Auctioneers	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	88	51	49	26	14	—	—	—	—	—
Administrative support occupations, including dental	2 085 692	1 120 662	1 206 214	486 103	97 665	32 553	14 437	22 525	8 348	4 633
Supervisors, administrative support occupations	183 598	61 947	71 220	16 238	4 975	118	1 766	478	1 959	873
Supervisors, general office	53 619	26 170	20 771	7 231	3 249	560	586	218	61	19
Supervisors, computer equipment operators	4 100	1 267	997	245	249	12	21	12	—	—
Supervisors, financial records processing	14 401	5 908	6 394	2 445	851	95	191	195	2	—
Supervisors, financial records processing	14 987	20 043	6 695	1 220	73	5	18	76	2	—
Chief communications operators	49 491	8 554	42 361	6 240	553	46	150	181	1 889	847
Supervisors; distribution, scheduling, and adjusting clerks	35 852	20 337	14 399	7 166	3 970	1 076	187	245	21	8
Supervisors, distribution, scheduling, and adjusting clerks	19 783	12 663	6 442	6 442	2 975	818	182	230	13	8

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Transportation, communications, and other public utilities									
	Transportation									
	Total		Railroads		Bus service and urban transit		Other workers		Toxicah service	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States										
Employed persons 16 years and over—Con.										
Technical, sales, and administrative support occupations—Con.										
Administrative support occupations, including clerical—Con.										
Secretaries, stenographers, and typists	218 598	212 922	97 033	93 894	2 200	2 156	4 437	4 385	31 418	30 760
Secretaries	168 862	165 974	76 744	77 124	1 580	1 552	3 684	3 664	27 041	26 629
Stenographers	7 988	8 824	3 543	3 270	89	89	112	7	148	148
Typists	40 548	38 124	14 746	13 502	531	515	639	609	4 229	3 983
Information clerks	119 672	77 374	96 262	57 831	1 194	591	1 938	1 866	3 371	2 783
Interviewers	3 222	2 046	1 087	57	40	35	67	35	210	166
Hotel clerks	83 849	47 872	88 413	47 664	646	915	777	370	329	99
Transportation ticket and reservation agents	15 831	14 179	8 100	6 808	275	258	665	102	1 577	1 445
Receptionists	16 770	13 277	3 682	2 662	133	85	289	222	1 255	1 073
Information clerks, n.e.c.	128 279	92 715	17 677	9 912	446	186	419	277	3 809	2 862
Records processing occupations, except financial	425	290	61	39	—	—	—	—	40	17
Classified-ad clerks	940	659	468	353	7	—	7	—	9	—
Correspondence clerks	98 544	70 402	6 243	2 593	175	43	175	62	1 125	576
Order clerks	4 177	3 439	1 702	1 234	54	41	82	12	341	311
Personnel clerks, except payroll and timekeeping	14 098	10 592	6 843	4 671	132	87	129	107	20	20
Library clerks	9 599	7 005	2 260	1 957	60	13	19	19	1 827	1 609
File clerks	158 166	122 025	92 632	66 986	1 191	705	3 335	2 826	315	223
Records clerks	100 687	83 407	57 204	46 534	654	439	2 331	2 017	38 169	30 118
Financial records processing occupations	19 631	13 687	11 480	7 012	411	197	427	343	21 488	19 067
Bookkeepers, accounting, and auditing clerks	22 425	17 976	12 188	9 017	48	48	133	92	364	306
Payroll and timekeeping clerks	13 079	5 119	10 449	3 480	50	6	407	37	5 483	3 963
Billing clerks	2 344	1 836	1 311	943	28	21	37	—	5	—
Cost and rate clerks	2 996	1 652	1 506	699	105	39	53	48	428	351
Billing, posting, and calculating machine operators	948	523	333	140	7	7	—	—	319	219
Duplicating, mail, and other office machine operators	525	204	373	139	—	—	—	—	113	43
Duplicating machine operators	1 523	925	800	420	98	32	48	48	113	74
Mail preparing and paper handling machine operators	149 752	128 416	8 988	4 328	249	173	441	324	135	102
Office machine operators, n.e.c.	143 408	126 592	4 376	3 766	200	168	412	324	513	498
Communications equipment operators	5 896	1 666	4 365	505	49	5	29	—	13	5
Telephone operators	448	158	247	57	—	—	—	—	7	—
Telegraphers	550 671	137 236	541 200	133 028	184	39	188	62	10 277	2 674
Communications equipment operators, n.e.c.	267 935	267 095	267 095	267 095	—	—	—	—	—	—
Mail and message distributing occupations	287 585	95 511	267 095	95 511	—	—	—	—	—	—
Postal clerks, except mail carriers	235 593	33 179	256 593	33 179	—	—	—	—	—	—
Mail carriers, postal service	17 452	6 397	10 729	3 003	148	39	124	47	6 985	2 036
Mail clerks, except postal service	9 391	2 149	6 843	1 335	36	—	64	15	3 292	638
Messengers	241 314	57 286	145 502	28 239	3 491	720	5 130	1 471	43 475	7 241
Material recording, scheduling, and distributing clerks	52 778	14 298	39 913	7 738	1 851	228	2 726	831	23 027	4 037
Dispatchers	23 616	10 200	10 594	3 150	688	208	2 726	178	43 475	7 241
Production coordinators	39 672	11 961	55 172	9 994	351	63	1 436	27	2 877	326
Traffic, shipping, and receiving clerks	39 083	9 309	21 942	4 464	505	90	454	138	1 172	1 857
Stock and inventory clerks	41 407	4 239	12 237	1 332	—	—	—	—	22	—
Meter readers	13 323	1 724	12 237	1 332	55	6	153	57	2 610	452
Weights, measures, and checkers	214	64	3 606	1 105	6	6	36	7	4 999	271
Samplers	6 441	2 745	3 606	1 105	—	—	—	—	35	—
Expeditors	4 780	2 746	1 910	439	38	19	40	13	537	242
Material recording, scheduling, and distributing clerks, n.e.c.	32 871	17 092	13 622	6 580	499	125	428	198	88	56
Adjusters and investigators	23 320	12 199	11 332	5 281	—	—	—	—	5 117	2 908
Insurance adjusters, claimers, and investigators	301	4 702	2 122	79	249	67	297	130	4 206	2 256
Investigators and adjusters, except insurance	9 250	4 702	2 122	79	—	—	—	—	25	—
Eligibility clerks, social welfare	263 923	191 070	106 173	61 200	2 725	58	131	68	886	642
Bill and account collectors	183 886	134 079	76 491	42 634	2 000	996	2 399	1 758	28 216	21 042
Miscellaneous administrative support occupations	—	—	—	—	—	—	—	—	336	206
General office clerks	—	—	—	—	—	—	—	—	—	—
Bank tellers	472	346	91	31	—	—	—	—	31	20
Proofreaders	28 884	24 312	13 961	11 227	242	210	267	207	3 607	3 292
Don-entry clerks	23 943	18 055	4 784	2 427	117	47	239	143	912	578
Statistical clerks	—	—	—	—	—	—	—	—	—	—
Telephone clerks	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities

United States	Transportation									
	Total		Railroads		Bus service and urban transit				Taxicab service	
	Total	Female	Total	Female	Government workers	Other workers	Total	Female	Total	Female
Service occupations	250 776	93 354	186 271	80 571	14 336	1 639	9 441	1 327	11 719	4 968
Private household occupations	35 663	4 572	23 607	2 955	5 477	194	1 460	156	808	311
Protective service occupations	1 283	80	631	33	121	—	13	—	2	—
Supervisors, protective service occupations	1 159	—	107	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	13	—	2	—
Supervisors, police and detectives	1 124	80	524	33	121	—	15	—	24	—
Supervisors, guards	1 916	65	1 592	51	262	15	15	—	3	—
Freightlifting and fire prevention occupations	336	14	174	—	90	—	9	—	21	—
Fire inspection and fire prevention occupations	1 580	51	1 418	51	172	15	—	—	—	—
Freightlifting occupations	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	32 464	4 427	21 384	2 871	5 094	179	1 432	158	762	311
Guards	1 426	148	1 373	118	370	132	44	3	40	8
Crossing guards	30 456	3 902	19 552	2 385	3 870	132	1 303	76	472	51
Guards and police, except public service	382	377	459	368	13	—	85	79	270	252
Protective service occupations, n.e.c.	215 113	88 782	162 664	77 616	8 859	1 445	7 981	1 169	10 911	4 657
Service occupations, except protective and household	15 721	7 011	13 401	5 503	1 926	214	43	13	598	446
Food preparation and service occupations	1 139	280	1 041	221	175	—	8	—	31	7
Supervisors, food preparation and service occupations	597	134	580	127	294	22	5	6	132	125
Bar tenders	2 264	1 229	1 923	977	495	87	5	2	226	181
Waiters and waitresses	6 615	2 554	6 030	2 176	763	30	—	—	6	6
Cooks, except short order	69	32	67	30	—	—	—	—	13	13
Short-order cooks	609	510	202	153	26	21	—	—	—	—
Food counter, fountain and related occupations	904	442	580	356	104	27	10	5	84	52
Kitchen workers, food preparation	907	442	766	340	104	27	9	—	102	64
Waiters' and waitresses' assistants	2 617	1 388	2 212	1 123	70	—	—	—	—	—
Miscellaneous food preparation occupations	4 196	1 546	3 769	1 309	41	18	749	242	2 486	822
Health service occupations	84	82	74	45	17	—	—	—	—	—
Dental assistants	2 918	882	2 738	812	17	—	527	180	1 986	598
Health aides, except nursing	1 194	585	957	432	24	18	222	62	500	224
Nursing aides, orderlies, and attendants	106 473	18 128	58 671	9 761	5 320	983	3 776	272	2 884	599
Cleaning and building service occupations, except household	3 872	2 327	2 354	1 299	124	4	724	33	81	9
Sanitation, cleaning and building service workers	7 485	2 494	4 601	1 354	566	150	41	41	403	128
Maid and houseman	93 310	15 024	50 557	8 075	4 566	811	2 855	198	2 379	462
Janitors and cleaners	1 34	249	55	151	—	—	9	—	21	—
Elevator operators	1 672	114	162	52	—	—	—	—	—	—
Pest control occupations	88 723	62 097	86 823	61 043	1 562	230	3 411	642	4 943	2 788
Personal service occupations	2 682	1 46	2 577	1 126	12	—	18	—	49	9
Supervisors, personal service occupations	96	46	44	17	—	—	—	—	—	—
Barbers	343	193	25	17	—	—	60	—	53	5
Hairdressers and cosmetologists	443	84	364	48	21	7	53	34	556	383
Attendants, amusement and recreation facilities	5 911	3 188	5 611	3 086	105	—	9	—	14	8
Guides	312	97	244	102	—	—	—	—	17	17
Ushers	67 775	53 198	67 775	53 198	623	84	2 832	310	1 484	706
Public transportation attendants	6 430	567	6 409	567	543	—	82	4	8	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—
Welfare service aides	1 995	1 692	1 739	1 545	10	—	252	219	1 106	1 017
Child care workers, except private household	2 736	1 850	2 035	1 356	230	90	105	75	611	389
Personal service occupations, n.e.c.	6 552	534	2 830	329	278	—	50	12	63	8
Farming, forestry, and fishing occupations	99	38	38	14	—	—	—	—	—	—
Farm operators and managers	5 203	447	1 916	280	157	—	50	12	63	8
Farm occupations, except managerial	170	43	90	73	—	—	—	—	—	—
Related agricultural occupations	4 493	226	1 365	73	157	—	50	12	55	8
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	—	—	—	—	—	—	—	—	—	—
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	42	7	7	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	United States									
	Total					Transportation				
	Total	Female	Total	Female	Total	Railroads	Bus service and urban transit		Taxicab service	
	Total	Female	Total	Female	Total	Total	Government workers	Other workers	Total	Female
Farming, forestry, and fishing occupations—Con.										
Forestry and logging occupations	768	43	477	29	114					
Supervisors, forestry and logging workers	13	—	11	—	—					
Forestry workers, except logging	100	—	58	—	36					
Timber cutting and logging occupations	655	43	408	29	78					
Fishers, hunters, and trappers	482	6	399	6	7					
Captains and other officers, fishing vessels	159	—	144	—	—					
Fishers	253	6	224	6	—					
Hunters and trappers	70	—	31	—	—					
Precision production, craft, and repair occupations										
Mechanics and repairers	1 219 828	52 276	413 558	8 866	110 652	965	21 725	269	20 473	535
Supervisors, mechanics and repairers	680 853	33 226	261 579	2 819	52 109	510	14 887	151	16 818	296
Mechanics and repairers, except supervisors	39 602	1 131	18 092	275	5 406	63	1 262	30	1 166	6
Vehicle and mobile equipment mechanics and repairers	641 251	32 095	243 487	2 544	46 703	447	13 625	121	15 652	74
Automobile mechanics	214 500	2 140	195 612	1 920	35 463	309	11 905	92	14 516	262
Bus, truck, and stationary engine mechanics	45 275	473	31 941	219	904	19	7 806	87	10 071	188
Aircraft mechanics	65 131	556	63 150	516	1 148	19	7 806	87	10 071	188
Aircraft engine mechanics	52 835	609	52 606	609	5	—	—	—	—	—
Small engine repairers	1 484	8	1 281	6	14	—	—	—	—	—
Automobile body and related repairers	2 256	25	1 882	14	27	—	—	—	—	—
Aircraft mechanics, except engine	5 164	157	5 106	151	—	—	—	—	—	—
Heavy equipment mechanics	41 643	310	39 404	305	33 358	290	2 128	6	1 295	9
Farm equipment mechanics	712	2	242	—	7	—	—	—	27	—
Industrial machinery repairers	25 749	307	7 980	53	1 262	8	491	—	206	10
Machinery maintenance occupations	4 281	92	4 298	82	356	12	491	6	206	8
Electrical and electronic equipment repairers	325 297	28 242	11 124	315	5 799	85	411	9	191	6
Electronic repairers, communications and industrial equipment	27 505	787	5 914	84	2 592	17	265	9	127	—
Data processing equipment repairers	2 108	191	276	58	67	—	10	—	13	—
Household appliance and power tool repairers	8 184	167	236	8	36	9	7	—	12	—
Telephone line installers and repairers	58 907	2 832	294	8	183	—	—	—	5	—
Telephone installers and repairers	223 527	24 157	1 289	109	585	12	87	—	6	—
Miscellaneous electrical and electronic equipment repairers	5 066	108	2 921	47	2 354	47	42	—	28	—
Heating, air conditioning, and refrigeration mechanics	4 925	67	1 967	19	161	—	104	—	91	—
Miscellaneous mechanics and repairers	64 479	1 247	21 826	248	3 682	33	708	20	628	5
Camera, watch, and musical instrument repairers	619	35	290	14	21	—	—	—	—	—
Locksmiths and safe repairers	216	9	108	3	28	—	—	—	6	—
Office machine repairers	1 793	69	1 425	27	14	—	—	—	—	—
Mechanical controls and valve repairers	19 249	323	309	6	59	—	14	—	18	—
Elevator installers and repairers	402	27	193	—	—	—	5	—	21	—
Millwrights	2 952	54	998	11	102	—	371	—	36	—
Specialized mechanics and repairers, n.e.c.	22 145	403	11 684	113	2 907	20	371	14	412	5
Not specified mechanics and repairers	17 103	327	6 819	74	551	13	251	—	135	2
Construction trades										
Supervisors, construction occupations	243 927	3 995	49 537	602	29 525	243	4 016	—	1 507	16
Supervisors, brickmasons, stonemasons, and tile setters	30 239	494	4 346	25	2 348	6	331	—	138	—
Supervisors, carpenters and related workers	26	—	5	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	524	3	243	—	142	—	24	—	21	—
Supervisors, painters, paperhangers, and plasterers	6 596	47	1 654	—	1 332	—	80	—	42	—
Supervisors, plumbers, pipefitters, and steamfitters	36	—	—	—	—	—	9	—	—	—
Supervisors, n.e.c.	615	4	94	—	21	—	—	—	—	—
Construction trades, except supervisors	22 442	440	2 326	25	853	6	218	—	75	—
Brickmasons and stonemasons	213 688	3 501	45 191	577	27 177	237	3 685	—	1 369	16
Tile setters, hard and soft	1 029	29	426	9	144	—	18	—	—	—
Carpenters	116	—	74	12	11	—	—	—	—	—
Cooper	14 753	208	8 076	96	4 571	30	338	—	171	7
Drywall installers	87	—	57	—	28	—	—	—	—	—
Electrician	54 684	871	2 211	145	9 774	126	5 517	—	572	10
Plasterers, masons, and roofers	87	—	6	—	—	—	—	—	—	—
Painters, paperhangers, and plasterers	87	—	6	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	87	—	6	—	—	—	—	—	—	—
Not specified construction trades	87	—	6	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Total					Transportation				
	Total		Total			Railroads		Bus service and urban transit		
	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Plasterers	41	—	16	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	31 804	648	5 385	35	—	3 714	21	—	—	—
Carpenters	438	80	80	—	—	13	—	—	—	—
Concrete and masonry finishers	74	26	31	20	—	—	—	—	—	—
Glaziers	843	47	52	6	—	7	—	—	—	—
Insulation workers	92	11	45	—	—	2	—	—	—	—
Painting, surfacing, and tamping equipment operators	96	6	44	—	—	—	—	—	—	—
Roofers	329	6	130	6	—	44	—	—	—	—
Sheetmetal duct installers	1 443	—	367	—	—	153	—	—	—	—
Structural metal workers	297	17	7	4	—	—	—	—	—	—
Welders	8 414	157	4 292	107	—	2 591	16	—	—	—
Construction trades, n.e.c.	1 225	55	606	20	—	82	—	—	—	—
Extraction occupations	397	12	205	12	—	14	—	—	—	—
Services, n.e.c.	177	—	115	—	—	—	—	—	—	—
Supervisors, production occupations	218	—	112	—	—	46	—	—	—	—
Electricians	210	28	67	8	—	13	—	—	—	—
Machine operators	223	15	107	—	—	9	—	—	—	—
Mining occupations, n.e.c.										
Precision production occupations	293 823	15 000	101 836	5 425	—	28 936	212	—	—	—
Supervisors, production occupations	151 254	8 482	57 460	3 507	—	4 073	67	—	—	—
Precision metalworking occupations	35 328	44	23 257	212	—	16 642	75	—	—	—
Tool and die makers	144	35	63	11	—	23	—	—	—	—
Precision assemblers, metal	23 014	184	17 889	113	—	13 767	53	—	—	—
Machinists	4 724	91	1 091	9	—	890	2	—	—	—
Boilermakers	61	6	46	—	—	19	—	—	—	—
Precision grinders, filers, and tool sharpeners	105	32	43	6	—	29	—	—	—	—
Pattenmakers and model makers, metal	343	26	233	7	—	67	—	—	—	—
Lay-out workers	105	26	55	7	—	11	—	—	—	—
Precious stones and metals workers (jewelers)	166	7	26	7	—	6	—	—	—	—
Engravers, metal	4 217	53	3 522	49	—	1 747	20	—	—	—
Sheel metal workers	34	—	12	—	—	—	—	—	—	—
Miscellaneous precision metal workers	357	36	267	29	—	46	—	—	—	—
Precision woodworking occupations	27	—	16	—	—	10	—	—	—	—
Pattenmakers and model makers, wood	206	22	139	22	—	36	—	—	—	—
Cabinet makers and bench carpenters	65	—	37	—	—	—	—	—	—	—
Furniture and wood finishers	59	14	48	7	—	—	—	—	—	—
Miscellaneous precision woodworkers	988	216	682	162	—	103	11	—	—	—
Precision textile, apparel, and furnishings machine workers	399	119	115	93	—	—	—	—	—	—
Dressmakers	39	57	37	57	—	103	11	—	—	—
Tailors	390	57	315	57	—	—	—	—	—	—
Upholsterers	60	12	36	—	—	—	—	—	—	—
Shoe repairers	49	5	31	—	—	—	—	—	—	—
Apparel and fabric patternmakers	61	27	—	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	2 166	377	557	169	—	124	11	—	—	—
Precision workers, assorted materials	125	8	60	8	—	36	6	—	—	—
Hard makers and shapers, except jewelers	77	11	16	11	—	—	—	—	—	—
Pattenmakers, lay-out workers, and cutters	110	24	63	28	—	12	—	—	—	—
Optical goods workers	437	274	140	101	—	14	5	—	—	—
Dental laboratory and medical appliance technicians	1 272	12	3	3	—	40	—	—	—	—
Bookbinders	3 521	1 017	3 349	988	—	51	8	—	—	—
Electrical and electronic equipment assemblers	3 529	967	3 098	943	—	29	8	—	—	—
Miscellaneous precision workers, n.e.c.	202	5	161	45	—	22	—	—	—	—
Precision food production occupations	16 715	1 098	11 527	183	—	7 234	40	—	—	—
Bakers	16 607	1 092	11 428	183	—	7 141	40	—	—	—
Food batchmakers	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers	—	—	—	—	—	—	—	—	—	—
Inspectors, testers, and graders	—	—	—	—	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	—	—	—	—	—	—
Trucking service										
Total	1 660	—	31 668	—	—	—	—	—	—	—
Female	1 578	—	30 313	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities

	Total		Total		Railroads		Bus service and urban transit				Taxicab service		Trucking service	
	Total		Total		Total		Government workers		Other workers		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Precision production operators—Con.														
Plant and system operators	85 449	3 110	4 817	175	643	—	340	20	244	68	18	8	309	14
Water and sewage treatment plant operators	27 389	1 819	78	—	5	—	133	—	—	—	—	—	7	—
Power plant operators	20 956	1 078	329	97	19	—	207	20	132	68	6	—	5	—
Stationary engineers	22 567	770	3 301	38	601	—	203	—	104	—	4	—	233	14
Miscellaneous plant and system operators	14 537	443	1 109	40	18	—	—	—	8	—	8	—	64	—
Operators, fabricators, and laborers														
Machine operators, assemblers, and inspectors	2 152 483	142 903	1 833 330	122 539	287 848	4 606	73 922	13 247	141 974	45 817	87 086	7 183	944 107	26 784
Machine operators and tenders, except precision	164 310	18 418	80 545	7 357	39 550	635	2 109	62	1 419	158	43	—	10 300	931
Metalworking and plastic working machine operators	78 227	9 938	33 244	4 009	13 468	311	652	20	651	103	137	34	3 626	442
Metalworking and plastic working machine operators—	3 958	291	2 059	103	1	26	70	—	36	—	—	—	181	15
Lathe and turning machine set-up operators	70	—	49	—	—	—	—	—	—	—	—	—	19	—
Lathe and turning machine operators	622	38	420	2	246	—	19	—	8	—	—	—	22	2
Milling and planing machine operators	83	—	48	—	—	—	—	—	5	—	—	—	25	—
Punching and stamping press machine operators	1 385	91	369	25	155	2	43	—	6	—	—	—	54	2
Rolling machine operators	64	14	41	—	19	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	303	42	149	7	69	7	8	—	2	—	—	—	12	—
Grinding, abrading, buffing, and polishing machine operators	951	69	722	56	441	17	—	—	9	—	—	—	47	11
Forging machine operators	343	4	213	—	176	—	—	—	—	—	—	—	2	—
Numerical control machine operators	48	13	6	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	89	20	42	13	—	—	—	—	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	305	81	183	44	52	—	—	—	—	—	—	—	—	—
Metal and plastic processing machine operators	957	98	565	24	72	—	33	—	18	—	—	—	22	7
Molding and casting machine operators	510	80	241	19	2	—	18	—	16	—	—	—	54	10
Metal plating machine operators	317	18	246	5	23	—	15	—	—	—	—	—	44	10
Heat treating equipment operators	83	—	42	—	—	—	—	—	2	—	—	—	8	—
Miscellaneous metal and plastic processing machine operators	47	—	36	—	19	—	—	—	—	—	—	—	2	—
Woodworking machine operators	447	43	297	32	50	2	6	—	—	—	12	—	96	—
Wood lath, routing, and planing machine operators	25	—	20	—	—	—	—	—	—	—	—	—	6	—
Sawing machine operators	277	25	199	25	21	2	—	—	—	—	12	—	77	—
Shaping and joining machine operators	22	6	16	—	12	—	—	—	—	—	—	—	—	—
Nailing and tacking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous woodworking machine operators	123	12	62	7	17	—	6	—	—	—	—	—	13	—
Printing machine operators	2 793	878	1 128	283	165	22	59	14	47	5	—	—	174	53
Printing machine operators	2 251	555	942	187	146	15	59	14	37	5	—	—	121	12
Photoengravers and lithographers	103	17	46	24	19	7	—	—	5	—	—	—	12	7
Typesetters and compositors	273	187	84	62	—	—	—	—	—	—	—	—	34	34
Miscellaneous printing machine operators	166	79	51	20	—	—	—	—	—	—	—	—	7	—
Textile, apparel, and furnishings machine operators	1 047	347	519	153	93	25	—	—	23	13	9	—	85	22
Winding and twisting machine operators	106	26	35	—	7	—	—	—	—	—	6	—	7	—
Knitting, looping, taping, and weaving machine operators	8	8	—	—	—	—	—	—	—	—	—	—	8	8
Textile cutting machine operators	20	—	6	—	—	—	—	—	—	—	—	—	6	—
Textile sewing machine operators	290	104	170	61	26	10	—	—	—	—	—	—	37	14
Shoe machine operators	53	—	32	—	—	—	—	—	—	—	—	—	—	—
Pressing machine operators	103	46	30	14	—	—	—	—	6	6	—	—	—	—
Laundering and dry cleaning machine operators	244	123	118	59	46	15	—	—	12	7	3	—	11	—
Miscellaneous textile machine operators	223	40	140	11	—	—	—	—	5	—	—	—	16	—
Machine operators, essential materials														
Machine operators, essential materials	68 720	8 200	26 498	3 360	11 900	236	484	6	527	85	116	34	3 014	335
Cementing and plaster machine operators	250	20	80	7	12	—	5	—	—	—	—	—	22	7
Packaging and filling machine operators	572	195	386	132	7	—	—	—	—	—	—	—	105	18
Extruding and forming machine operators	68	6	42	47	37	—	—	—	—	—	—	—	24	6
Molding and blending machine operators	582	227	184	12	—	—	—	—	4	4	—	—	13	—
Squeezing, filtering, and drying machine operators	543	49	165	37	8	—	—	—	—	—	—	—	27	—
Compressing and compacting machine operators	272	45	151	37	—	—	—	—	—	—	—	—	8	—
Pushing and pulling machine operators	29	19	12	23	439	16	50	—	27	—	10	—	329	15
Pushing and pulling machine operators—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pushing and pulling machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Transportation, communications, and other public utilities									
	Transportation									
	Total		Total		Railroads		Bus service and urban transit		Taxicab service	
	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators and tenders, except precision—Con.										
Machine operators, assorted materials—Con.										
Folding machine operators	131	48	71	37	248	9	35	12	2	8
Furnace, kiln, and oven operators, except food	8 469	108	1 113	23	27	—	—	—	—	62
Crushing and grinding machine operators	373	9	188	9	112	—	—	—	—	11
Slicing and cutting machine operators	986	124	685	69	—	—	—	—	—	308
Motion picture projectionists	57	6	12	—	—	—	—	—	—	—
Photographic process machine operators	1 074	504	188	96	47	17	—	—	—	7
Miscellaneous machine operators, n.e.c.	11 583	2 345	4 391	872	1 066	37	79	80	29	602
Machine operators, not specified	40 486	4 449	19 223	1 960	9 900	157	315	398	75	1 488
Fabricators, assemblers, and hand working occupations										
Welders and cutters	52 490	4 576	29 002	1 372	16 937	225	436	572	45	3 577
Solders and brazers	39 645	4 463	22 558	241	15 017	153	205	305	23	2 513
Assemblers	10 761	3 711	4 858	989	1 126	42	109	154	16	985
Hand cutting and trimming occupations	104	26	61	10	—	—	10	—	—	11
Hand molding, casting, and forming occupations	45	11	—	—	—	—	—	—	—	—
Hand painting, coating and decorating occupations	1 397	86	1 286	52	748	19	112	94	6	48
Hand engraving and printing occupations	41	5	21	—	7	—	—	14	—	—
Hand grinding and polishing occupations	54	16	17	—	4	—	—	—	—	—
Miscellaneous hand working occupations	183	85	139	55	18	11	—	—	—	15
Production inspectors, testers, samplers, and weighers										
Production inspectors, checkers, and examiners	33 393	3 904	18 299	1 976	9 145	99	1 021	196	—	3 097
Production testers	28 648	2 459	14 519	707	8 411	87	973	179	—	1 975
Production samplers and weighers	1 968	43	1 314	15	679	1	48	8	—	485
Graders and sorters, except agricultural	2 626	1 327	2 336	1 236	—	—	—	9	—	637
Transportation and material moving occupations										
Motor vehicle operators	1 534 881	95 938	1 439 489	93 538	197 896	2 641	68 213	136 621	86 640	813 418
Supervisors, motor vehicle operators	1 213 977	90 224	1 146 438	88 515	7 489	157	63 332	135 186	86 584	20 452
Truck drivers, heavy	14 242	899	13 495	675	45	—	886	56	431	10 751
Truck drivers, light	795 742	16 865	737 878	15 795	6 024	74	989	158	1 319	694 968
Drive-sales workers	106 721	5 290	102 103	5 363	561	16	271	37	303	14 209
Bus operators	4 871	212	4 357	163	63	—	17	5	6	4 632
Taxi drivers and chauffeurs	184 371	57 181	183 866	57 240	365	34	59 244	117 351	1 229	3 248
Perkins lot attendants	105 439	9 071	103 739	8 995	280	25	1 865	12 728	83 060	2 394
Motor transportation occupations, n.e.c.	792	110	637	97	49	—	30	6	—	199
Rail transportation occupations	1 692	40	213	34	15	—	30	6	—	47
Railroad conductors and yardmasters	186 469	2 520	185 414	2 431	178 916	2 182	4 503	109	18	331
Locomotive operating occupations	43 796	469	43 582	442	389	389	346	95	6	42
Railroad brake, signal, and switch operators	63 156	933	62 804	890	58 016	735	3 524	74	6	120
Rail vehicle operators, n.e.c.	70 989	882	70 516	863	70 219	857	37	53	12	148
Water transportation occupations	8 528	236	8 512	236	7 726	201	596	89	—	21
Ship captains and mates, except fishing boats	51 595	1 070	50 984	1 050	633	6	118	14	29	391
Sailors and deckhands	24 269	343	24 107	363	142	—	—	14	20	211
Marine engineers	22 566	463	22 447	463	38	—	27	26	9	66
Bridge, lock, and lighthouse tenders	2 046	22	1 998	16	—	—	—	—	—	101
Material moving equipment operators	2 714	222	2 432	208	291	6	91	17	—	13
Supervisors, material moving equipment operators	82 840	2 124	56 653	1 542	10 858	296	260	210	9	325
Operating engineers	10 536	153	9 514	124	4 288	14	57	34	10	10 544
Laboratory equipment operators	7 119	93	7 119	93	484	—	58	13	—	1
Hoist and winch operators	3 665	81	3 654	81	—	—	—	—	—	254
Crane and tower operators	7 563	60	7 563	60	60	—	—	—	—	7
Excavating and loading machine operators	49	23	519	32	2 540	16	52	25	—	14
Grader, dozer, and scraper operators	5 874	220	5 874	220	1 118	143	22	22	—	535
Industrial truck and tractor equipment operators	3 166	45	3 166	45	1 550	—	8	—	—	280
Miscellaneous material moving equipment operators	26 771	694	24 185	583	1 938	92	44	79	—	229
	17 396	729	10 765	516	838	25	37	37	9	5 250
										2 834

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Transportation, communications, and other public utilities															
Total		Transportation										Taxicab service		Trucking service	
		Total		Railroads		Bus service and urban transit				Other workers					
						Government workers		Total							
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
453 292	28 547	313 296	21 644	50 402	1 330	3 600	189	3 934	622	264	15	120 389	5 063		
2 873	184	2 267	135	79	—	11	—	22	7	3	—	186	6		
2 951	181	1 700	59	139	—	216	—	201	20	37	—	754	16		
3 771	182	522	12	297	12	12	—	6	—	—	—	40	—		
3 495	157	457	5	246	5	12	—	6	—	—	—	40	—		
276	25	65	7	51	7	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
16 622	339	3 182	53	1 985	20	97	—	51	3	—	—	297	10		
7 414	442	3 786	140	2 055	50	258	6	120	10	—	—	404	10		
243 114	9 211	182 072	7 488	2 448	74	239	—	783	38	18	—	97 852	2 990		
63 396	1 423	7 132	136	2	—	15	—	5	—	—	—	7 007	136		
18 878	235	18 814	235	54	—	—	—	—	—	—	—	234	6		
3 727	633	2 530	437	169	27	62	—	27	—	—	—	544	89		
884	126	560	103	79	—	8	—	7	—	—	—	102	7		
156 229	6 794	153 036	6 577	2 144	47	154	—	744	38	18	—	89 965	2 752		
6 306	262	4 553	156	125	6	355	35	580	28	108	—	2 477	38		
11 602	1 732	10 410	1 607	1 017	76	894	115	1 419	379	58	—	2 875	146		
13 290	5 444	12 651	5 244	1 101	15	13	—	63	27	6	—	4 019	1 325		
145 349	10 620	92 153	6 750	42 156	1 077	1 505	33	689	110	34	9	11 335	522		
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Handlers, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers															
n.e.c.															
Helpers, mechanics and repairers															
Helpers, construction and extractive occupations															
Helpers, construction trades															
Helpers, surveyor															
Helpers, extractive occupations															
Construction laborers															
Production helpers															
Freight, stock, and material handlers															
Garbage collectors															
Stewards															
Stock handlers and loaders															
Machine feeders and operators															
Freight, stock, and material handlers, n.e.c.															
Garage and service station related occupations															
Vehicle washers and equipment cleaners															
Hand packers and packagers															
Laborers, except construction															

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Repairers, equipment cleaners, helpers, and laborers—
 Supervisors, handlers, equipment cleaners, and laborers,
 Helpers, mechanics and repairers—
 Helpers, construction and extractive occupations—
 Helpers, construction trades—
 Helpers, surveyor—
 Helpers, extractive occupations—
 Construction laborers—
 Production helpers—
 Freight, stock, and material handlers—
 Garbage collectors—
 Stevedores—
 Stock handlers and baggers—
 Machine feeders and offbearers—
 Freight, stock, and material handlers, n.e.c.—
 Garage and service station related occupations—
 Vehicle washers and equipment cleaners—
 Hand washers and packagers—
 Laborers, except construction—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con.													
Transportation—Con.													
Warehousing and storage	U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Communications		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
190 524	46 348	720 899	176 254	192 116	25 857	527 992	169 587	20 833	4 134	220 506	122 936	1 440 848	666 094
26 648	4 474	51 935	17 629	33 183	3 526	57 862	12 518	4 523	684	42 646	16 394	330 070	101 041
25 874	4 305	48 581	16 990	21 331	3 159	45 177	9 969	2 847	486	39 269	15 202	158 799	57 958
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	1 280	343	—	—	—	—	—	—	—	—	—	—
—	—	1 280	343	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
371	107	540	54	581	90	1 243	235	78	5	988	394	4 376	1 331
351	68	719	213	504	77	1 189	282	91	19	460	209	5 760	2 552
88	28	209	59	122	21	289	48	46	6	140	35	386	71
906	71	151	11	1 126	126	3 640	589	44	6	2 417	838	13 048	2 754
15	6	82	38	12	12	25	9	15	—	42	23	213	72
—	—	—	—	—	—	—	—	—	—	—	—	—	—
85	31	111	16	67	6	99	15	76	7	32	—	786	73
—	—	31 150	13 522	—	—	—	—	—	—	—	—	—	—
6	—	23	—	17	—	—	—	—	—	5	—	6	6
21 708	3 238	7 195	1 014	15 193	1 899	28 172	4 163	1 320	121	29 808	11 272	104 192	35 528
20 271	2 984	7 195	1 014	14 050	1 677	27 533	4 062	1 290	121	27 067	10 250	103 233	35 363
1 437	254	—	—	1 143	222	639	101	30	1 022	2 741	1 022	959	165
—	—	—	—	—	—	—	—	—	—	—	—	—	—
2 344	756	7 121	1 720	3 726	940	10 447	4 621	1 172	328	5 377	2 431	30 021	15 544
1 179	520	1 648	395	2 125	720	5 241	2 870	682	194	3 320	1 539	10 401	5 331
—	—	—	—	16	—	—	7	—	—	—	—	34	—
60	9	233	72	243	42	401	141	33	7	308	122	1 271	354
83	24	115	49	99	14	214	73	18	48	164	48	1 623	419
531	90	2 818	897	588	85	2 914	1 125	171	56	677	325	12 387	7 059
—	—	—	—	—	—	—	—	—	—	—	—	—	—
436	108	206	84	449	60	1 177	280	221	40	378	126	1 397	504
—	—	13	—	69	13	77	51	—	—	315	205	174	107
—	—	10	—	59	54	—	28	11	5	8	—	225	51
—	—	2 008	209	68	6	224	46	7	23	92	23	119	25
30	25	70	14	19	—	138	46	29	22	115	43	1 870	1 213
—	—	—	—	—	—	—	—	—	—	—	—	—	—
774	169	3 354	639	11 852	367	12 685	2 549	1 676	198	3 397	1 192	171 271	43 083
407	36	1 159	74	10 058	67	3 804	168	877	12	29 977	40	56 245	9 179
—	—	49	—	32	—	146	6	21	6	24	6	229	35
407	36	1 110	74	9 899	67	3 652	162	869	12	907	28	56 000	9 137
—	—	—	—	31	—	1 262	34	—	—	20	—	173	34
—	—	—	—	13	—	17	4	8	—	7	—	23	9
10	—	9	—	6	—	—	—	6	4	—	—	—	—
—	—	9	—	23	—	13	—	114	4	—	—	33	5
—	—	9	—	15	—	7	—	46	—	—	—	9	—
55	—	61	—	281	7	189	—	74	—	236	6	1 233	139
—	—	—	—	—	—	—	—	—	—	—	—	—	—
78	17	155	—	212	—	500	11	141	—	106	7	49 659	8 329
81	19	631	46	306	—	746	95	29	8	90	11	1 069	311
114	—	124	27	306	—	266	12	98	8	88	—	685	43
—	—	—	—	8 562	49	62	—	38	—	158	4	16	—
—	—	6	—	224	11	584	6	315	—	195	—	3 034	461
69	—	115	1	197	—	6	—	7	—	46	6	16	7
—	—	—	—	—	—	—	—	—	—	—	—	—	—
83	8	827	125	372	95	2 191	657	356	68	352	111	8 977	3 169
49	8	303	38	177	15	1 239	355	228	49	200	67	5 832	916
31	—	399	55	159	68	640	141	89	6	130	33	2 480	13
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	125	32	36	12	301	156	39	13	22	11	621	320
—	—	—	—	—	—	11	5	—	—	—	—	22	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Quota and estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Production occupations—Con.

Health occupations—Con.

Physicians and astronomers

Chemists, except biochemists

Atmospheric and space scientists

Geologists and geodesists

Physical scientists, n.e.c.

Agricultural and food scientists

Biological and life scientists

Forestry and conservation scientists

Medical scientists

Health diagnosing occupations

Physicians

Physicians' assistants

Veterinarians

Optometrists

Podiatrists

Health diagnosing practitioners, n.e.c.

Health assessment and treating occupations

Registered nurses

Nurse practitioners

Dietitians

Therapists

Physicians' assistants

Teachers, postsecondary

Teachers, except postsecondary

Teachers, prekindergarten and kindergarten

Teachers, elementary and secondary school

Teachers, special education

Teachers, n.e.c.

Trainers, technical and vocational

Librarians, archivists, and curators

Librarians

Archivists and curators

Social scientists and urban planners

Economists

Psychologists

Sociologists

Social scientists, n.e.c.

Urban planners

Social scientists and religious workers

Social workers

Religious workers

Chaplains

Religious workers, n.e.c.

Lawyers and judges

Lawyers

Attorneys, clerks, stenographers and others

Authors

Technical writers

Engineers and engineering technicians

Engineering technicians

Engineering technicians, n.e.c.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con.

Transportation—Con.

Communications

United States

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Production occupations—Con.

Health occupations—Con.

Physicians and astronomers

Chemists, except biochemists

Atmospheric and space scientists

Geologists and geodesists

Physical scientists, n.e.c.

Agricultural and food scientists

Biological and life scientists

Forestry and conservation scientists

Medical scientists

Health diagnosing occupations

Physicians

Physicians' assistants

Veterinarians

Optometrists

Podiatrists

Health diagnosing practitioners, n.e.c.

Health assessment and treating occupations

Registered nurses

Nurse practitioners

Dietitians

Therapists

Physicians' assistants

Teachers, postsecondary

Teachers, except postsecondary

Teachers, prekindergarten and kindergarten

Teachers, elementary and secondary school

Teachers, special education

Teachers, n.e.c.

Trainers, technical and vocational

Librarians, archivists, and curators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

[Data are estimates based on a sample; see introduction. For meaning of symbols, see explanatory notes.]

United States

Employed persons 16 years and over—Con.

Warehousing and storage	U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Communications	
	Total		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations.....	52 034	28 470	595 493	149 684	36 655	18 207	234 492	91 070	139 636	98 702	722 299	513 963
Technicians and related support occupations.....	639	111	3 381	447	2 668	204	65 056	2 023	1 380	399	73 492	17 397
Health technologists and technicians.....	18	-	66	17	29	7	101	47	57	39	144	92
Dental hygienists.....	5	-	19	6	13	7	18	18	4	-	73	40
Clinical laboratory technologists and technicians.....	8	-	-	-	-	-	-	-	-	-	-	-
Health record technologists and technicians.....	5	-	31	11	-	-	-	-	-	-	-	-
Radiologic technicians.....	-	-	-	-	-	-	-	-	-	-	-	-
Licensed practical nurses.....	5	-	16	-	16	-	20	8	-	-	22	11
Engineering and related technologists and technicians.....	197	13	1 901	33	1 190	51	2 375	214	69	77	22 487	6 656
Electrical and electronic technicians.....	82	5	1 727	16	1 193	17	1 816	71	108	16	12 652	1 034
Mechanical engineering technicians.....	13	-	26	-	13	-	25	5	8	-	252	46
Mechanical engineering technicians.....	15	-	78	-	263	34	292	53	74	13	2 851	1 377
Engineering technicians, n.e.c.....	42	8	225	10	225	28	292	45	82	35	6 496	1 123
Drafting occupations.....	35	-	158	6	96	-	374	20	20	20	1 050	145
Surveying and mapping technicians.....	10	-	-	-	-	-	41	9	-	-	85	7
Science technicians.....	83	21	393	126	10	-	41	23	-	-	14	138
Biological technicians.....	17	-	-	-	50	-	285	41	-	-	93	10 304
Chemical technicians.....	60	21	393	126	1 389	146	62 206	1 692	953	263	49 811	10 304
Technicians, except health, engineering, and science.....	341	77	1 021	271	293	-	57 476	679	210	15	231	-
Airplane pilots and navigators.....	11	-	89	-	-	-	-	-	-	-	-	-
Air traffic controllers.....	-	-	-	-	617	22	466	139	-	-	105	17
Broadcast equipment operators.....	6	-	28	13	243	-	2 823	727	182	174	9 266	2 152
Computer programmers.....	136	39	218	75	49	-	49	15	10	-	423	171
Total programmers, numerical control.....	14	6	36	24	32	32	47	36	35	18	25	231
Legal assistants.....	174	32	650	159	187	40	1 345	96	292	31	25 945	4 060
Technicians, n.e.c.....	-	-	-	-	-	-	-	-	-	-	-	-
Sales occupations.....	6 447	1 316	2 006	683	3 545	867	9 316	4 261	285	70	81 089	55 268
Supervisors and proprietors, sales occupations.....	495	86	143	7	378	52	1 018	211	3 055	817	2 788	26 786
Solidier.....	424	69	143	7	378	52	1 018	211	2 770	761	2 742	767
Self-employed.....	5 351	912	1 548	529	2 368	516	5 464	2 315	285	56	46 050	20 739
Sales representatives, finance and business services.....	-	-	-	-	-	-	-	-	67 449	52 549	-	-
Insurance sales occupations.....	43	7	472	140	16	-	30	17	6	30	155	50
Real estate sales occupations.....	-	-	-	-	-	-	-	-	-	-	-	-
Securities and financial services sales occupations.....	44	22	26	12	7	-	95	38	10	10	19 407	7 417
Advertising and related sales occupations.....	5 264	883	1 050	377	2 345	516	5 339	2 260	67 318	52 478	26 488	13 272
Sales occupations, other business services.....	25	-	-	-	8	-	8	8	66	7	219	27
Sales representatives, commodities, except retail.....	25	-	-	-	-	-	-	-	66	7	219	27
Sales engineers.....	-	-	-	-	-	-	-	-	-	-	-	-
Sales representatives, mining, manufacturing, and wholesale.....	568	318	287	121	702	297	2 813	1 722	10 460	3 856	6 149	4 783
Sales workers, retail and personal services.....	102	6	38	5	87	8	373	51	23	26	795	182
Sales counter clerks.....	71	29	5	-	547	277	1 588	1 060	34	34	3 946	34
Cashiers.....	281	210	181	103	57	5	588	337	10 142	3 637	1 233	3 946
Street and door-to-door sales workers.....	105	73	6	13	11	16	16	16	24	7	124	81
News vendors.....	9	-	57	26	11	5	13	5	20	20	62	33
Sales related occupations.....	8	-	28	-	5	-	13	5	59	35	35	21
Demonstrators, promoters and models, sales.....	8	-	-	-	-	-	13	-	24	20	8	-
Auctioneers.....	-	-	-	-	-	-	-	-	-	-	-	-
Sales support occupations, n.e.c.....	-	-	28	26	5	-	-	-	-	-	19	12
Administrative support occupations, including clerical.....	44 948	27 043	590 106	148 554	30 442	17 136	160 120	84 786	57 167	41 054	593 539	470 198
Supervisors, administrative support occupations.....	2 425	763	33 772	4 437	2 396	719	9 800	2 827	3 383	1 449	93 421	40 174
Supervisors, general office.....	1	235	3 129	446	1 373	446	5 832	2 176	1 632	872	22 414	15 085
Supervisors, computer equipment operators.....	26	24	58	41	12	202	298	24	120	58	2 098	925
Supervisors, financial records processing.....	199	127	470	136	645	202	737	269	77	381	3 712	2 277
Supervisors, financial records.....	92	18	16	-	203	38	203	38	77	20	60 570	19 889
Chief communications operators.....	873	97	30 097	3 649	520	59	2 730	300	118	118	4 627	1 889
Supervisors; distribution, scheduling, and adjusting clerks.....	953	442	1 574	788	584	351	2 529	1 345	1 064	669	14 002	9 292
Computer equipment operators.....	890	580	522	739	522	311	2 425	1 292	1 064	607	13 354	8 458
Peripheral equipment operators.....	63	62	1 157	49	62	40	104	53	95	62	648	648

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States	Transportation, communications, and other public utilities—Con.									
	Transportation—Con.					Communications				
	Warehousing and storage	U.S. Postal Service	Water transportation	Air transportation	Pipe lines, except natural gas	Services incidental to transportation	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	7 714	4 930	7 300	14 478	1 336	12 338	65 375	12 047	65 375	63 797
Administrative support occupations, including clerical—Con.	6 502	3 257	6 219	12 762	1 141	9 792	46 279	9 645	46 279	45 648
Secretaries, stenographers, and typists	50	571	56	143	30	2 405	2 501	2 269	2 501	2 423
Stenographers	1 162	1 077	1 025	1 573	185	7 607	16 395	6 329	16 395	15 726
Typists	848	1 113	1 700	71 011	96	7 77	18 342	7 77	18 342	15 496
Information clerks	26	185	26	217	13	76	969	38	969	635
Interviewers	13	—	—	—	—	—	—	—	—	—
Hotel clerks	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	22	282	1 103	69 051	29	5 684	251	4 626	251	138
Receptionists	604	1 334	486	1 406	48	1 383	5 302	1 311	5 302	5 062
Information clerks, n.e.c.	196	205	85	337	6	464	11 820	354	11 820	9 661
Records processing occupations, except financial	2 446	2 110	850	1 912	173	1 930	80 924	1 403	80 924	69 173
Classified-ad clerks	6	—	—	—	—	—	308	—	308	240
Correspondence clerks	54	18	15	99	—	71	357	65	357	217
Order clerks	1 797	324	76	1 004	34	459	67 327	324	67 327	57 700
Personnel clerks, except payroll and timekeeping	52	507	66	200	23	68	1 657	46	1 657	1 504
Library clerks	14	7	7	14	5	5	301	6	301	194
File clerks	426	1 036	512	487	105	1 237	4 092	904	4 092	3 518
Records clerks	97	218	37	101	6	89	6 882	58	6 882	5 800
Financial records processing occupations	6 590	4 633	4 960	9 197	476	11 358	30 442	8 925	30 442	27 321
Bookkeepers, accountants, and auditing clerks	5 120	1 881	3 998	7 172	265	9 786	19 548	7 978	19 548	17 705
Payroll and timekeeping clerks	286	2 788	696	812	55	33	4 383	230	4 383	4 071
Billing clerks	670	20	398	457	13	622	1 664	480	1 664	3 789
Cost and rate clerks	507	72	3	665	10	483	1 886	141	1 886	1 321
Billing, posting, and calculating machine operators	7	315	38	91	—	110	461	96	461	435
Duplicating, mail, and other office machine operators	93	112	41	104	31	152	358	60	358	472
Duplicating machine operators	8	107	9	21	9	81	191	19	191	171
Mail preparing and paper handling machine operators	22	203	32	12	9	71	38	41	38	265
Office machine operators, n.e.c.	63	98	27	71	22	71	341	—	341	—
Communications equipment operators	315	218	199	495	57	374	138 478	339	138 478	122 297
Telephone operators	308	169	169	495	39	347	136 791	331	136 791	121 063
Telegraphers	7	20	24	—	18	13	491	8	491	1 101
Communications equipment operators, n.e.c.	—	49	6	—	—	—	196	—	196	—
Mail and message distributing occupations	696	523 954	374	2 108	55	1 478	5 957	464	5 957	2 808
Postal clerks, except mail carriers	—	267 035	—	—	—	—	—	—	—	—
Mail carriers, postal service	569	256 593	275	1 020	44	730	4 070	250	4 070	2 161
Mail clerks, except postal service	127	326	99	1 088	11	748	1 887	214	1 887	647
Messengers	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	16 372	5 479	6 773	35 296	606	6 822	29 356	2 136	29 356	19 519
Dispatchers	582	1 033	1 114	649	170	516	7 525	223	7 525	5 593
Production coordinators	447	1 050	255	3 671	220	284	7 708	284	7 708	5 616
Traffic, shipping, and receiving clerks	6 908	826	2 287	24 767	19	3 759	1 781	1 337	1 781	1 760
Stock and inventory clerks	6 230	1 217	815	4 963	144	698	7 559	158	7 559	3 418
Meter readers	—	—	—	—	—	—	—	—	—	—
Weights, measurers, and checkers	491	119	2 023	413	18	916	370	178	370	237
Samplers	8	—	—	17	—	27	34	27	34	27
Expeditors	253	1 194	248	613	35	288	1 178	116	1 178	900
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	144	40	31	203	—	45	2 201	40	2 201	1 968
Insurance adjusters, examiners, and investigators	473	1 028	710	1 736	53	1 049	9 627	674	9 627	6 635
Investigation and adjusters, except insurance	401	924	579	1 467	40	906	7 099	597	7 099	4 837
Eligibility clerks, social welfare	11	12	13	7	—	36	75	17	75	75
Bill and account collectors	61	64	118	248	13	107	2 453	60	2 453	1 728
Miscellaneous administrative support occupations	6 023	9 852	4 555	11 454	959	9 612	106 878	6 559	106 878	93 214
General office clerks	4 580	7 072	3 027	6 031	475	6 385	72 159	4 309	72 159	64 956
Bank tellers	—	—	—	—	—	—	—	—	—	—
Proofreaders	—	8	7	6	—	22	327	1 047	327	285
Date-entry typists	732	1 067	790	2 400	284	1 238	15 103	206	15 103	7 349
Industrial clerks	245	431	193	821	55	415	10 461	900	10 461	7 488
Industrial clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Employed Persons by Distance from Work For definitions of terms, see appendix A]

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see introduction.]

United States

Employed persons 16 years and over—Con.

Service occupations
Private household occupations
Protective service occupations
Supervisors, protective service occupations
Supervisors, firefighting and fire prevention occupations
Supervisors, police and detectives
Supervisors, guards
Freight occupations
Fire inspection and fire prevention occupations
Police and detectives
Police and detectives, public service
Sheriffs, bailiffs, and other law enforcement officers
Corrections institution officers
Guards
Crossing guards
Guards and police, except public service
Protective service occupations, n.e.c.
Service occupations, except protective and household
Food preparation and service occupations
Supervisors, food preparation and service occupations
Bartenders
Waiters and waitresses
Waiters, except short order
Cooks, except short order
Short-order cooks
Food counter, fountain and related occupations
Kitchen workers
Waiters and waitresses' assistants
Miscellaneous food preparation occupations
Health service occupations
Dental assistants
Health aides, except nursing
Nursing aides, orderlies, and attendants
Cleaning and building service occupations, except household
Supervisors, cleaning and building service workers
Maid and housemen
Janitors and cleaners
Elevator operators
Pest control occupations
Personal service occupations
Supervisors, personal service occupations
Barbers
Hairstylists and cosmetologists
Attendants, amusement and recreation facilities
Guides
Ushers
Public transportation attendants
Baggage porters and bellhops
Waiters service aides
Child care workers, except private household
Personal service occupations, n.e.c.
Farming, forestry, and fishing occupations
Farm operators and managers
Farm occupations, except managerial
Related agricultural occupations
Supervisors, related agricultural occupations
Groundskeepers and gardeners, except farm
Groundskeepers, except farm
Animal care series, agricultural products
Graders and series, agricultural products

Transportation, communications, and other public utilities—Con.

Transportation—Con.

Warehousing and storage	U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Communications	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
5 605	22 314	4 046	9 621	1 890	92 563	60 258	595	70	8 608	3 670	16 993	6 658
1 466	2 657	200	1 778	99	5 972	1 579	88	2	856	84	2 680	594
22	79	9	45	18	193	50	16	7	20	—	186	37
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	79	9	45	18	143	5	9	20	2	—	181	37
Supervisors, police and detectives	245	25	62	6	720	5	—	21	2	—	30	7
Supervisors, guards	5	—	18	—	41	—	—	7	—	—	21	—
Firefighting and fire prevention occupations	240	25	44	6	679	5	—	—	2	—	9	—
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—
Freight occupations	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—
Corrections institution officers	2 333	166	1 671	75	5 089	1 574	72	2	834	84	2 462	550
Guards	87	7	1 671	—	21	14	25	7	804	77	2 360	525
Crossing guards	2 318	151	1 659	75	5 065	1 551	72	2	5	—	67	—
Guards and police, except public service	87	8	12	—	33	9	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	19 657	3 846	7 843	1 791	86 591	58 679	507	68	7 752	3 586	14 313	6 064
Food preparation and service occupations	257	129	3 834	1 070	5 445	2 944	17	17	479	260	1 528	1 046
Supervisors, food preparation and service occupations	47	41	145	20	562	153	2	—	2	14	57	45
Supervisors, food preparation and service occupations	9	9	62	147	154	67	—	—	46	110	220	175
Bartenders	19	19	481	120	511	409	17	17	125	75	293	—
Waiters and waitresses	23	23	2 904	820	1 503	815	—	—	211	2	—	—
Waiters, except short order	49	49	26	27	14	9	2	2	2	—	—	—
Cooks, except short order	56	36	20	19	60	48	—	—	20	20	360	334
Short-order cooks	3	—	20	17	495	239	20	20	29	15	273	83
Food counter, fountain and related occupations	8	8	25	13	479	299	44	44	24	24	110	110
Kitchen workers	—	—	2	2	167	905	—	—	44	44	208	128
Waiters and waitresses' assistants	108	32	45	27	161	86	98	76	98	76	113	99
Miscellaneous food preparation occupations	2	2	14	14	60	51	—	—	—	—	—	—
Health service occupations	—	—	—	—	—	—	—	—	—	—	—	—
Dental assistants	78	16	14	5	46	35	—	—	26	11	5	22
Health aides, except nursing	30	16	26	8	55	35	—	—	72	72	29	72
Nursing aides, orderlies, and attendants	19 211	3 659	2 301	290	11 810	1 992	435	44	1 884	363	11 458	4 202
Cleaning and building service occupations, except household	599	38	119	—	821	310	23	—	77	—	518	88
Supervisors, cleaning and building service workers	240	155	63	63	861	310	20	—	206	108	953	625
Maid and housemen	17 391	3 251	2 000	227	10 083	1 538	392	35	1 571	240	9 909	3 428
Janitors and cleaners	472	106	18	—	17	28	—	—	57	15	69	61
Elevator operators	113	24	9	—	28	—	—	—	—	—	17	—
Pest control occupations	42	81	1 643	404	69 175	53 720	55	7	5 291	2 887	1 214	717
Personal service occupations	16	26	9	2	2 202	1 056	—	—	95	37	67	45
Supervisors, personal service occupations	—	—	—	—	—	—	—	—	30	9	22	17
Barbers	3	3	8	—	14	14	—	—	—	—	318	176
Hairstylists and cosmetologists	3	3	102	13	25	14	12	—	58	12	21	14
Attendants, amusement and recreation facilities	7	7	198	47	220	139	—	—	4 525	2 459	59	59
Guides	13	13	57	6	97	57	8	—	9	9	177	12
Ushers	—	—	235	25	61 503	51 575	—	—	227	161	—	—
Public transportation attendants	6	6	154	25	4 469	393	9	—	17	6	—	—
Baggage porters and bellhops	17	17	—	—	—	—	—	—	—	—	—	—
Waiters service aides	—	—	14	7	209	199	—	—	95	64	138	83
Child care workers, except private household	5	4	188	75	428	275	22	7	235	130	421	311
Personal service occupations, n.e.c.	24	28	616	12	584	83	17	—	544	161	327	36
Farming, forestry, and fishing occupations	67	77	—	—	—	—	—	—	—	—	—	—
Farm operators and managers	8	20	—	—	—	—	—	—	6	6	7	7
Farm occupations, except managerial	45	70	216	6	565	83	17	—	479	135	261	18
Related agricultural occupations	—	—	2	—	50	43	—	—	17	—	8	8
Supervisors, related agricultural occupations	—	—	204	6	497	24	17	—	93	5	251	16
Groundskeepers and gardeners, except farm	—	—	—	—	—	—	—	—	369	130	2	2
Groundskeepers, except farm	—	—	—	—	—	—	—	—	—	—	—	—
Animal care series, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Graders and series, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States														
Transportation, communications, and other public utilities—Con.														
Transportation—Con.														
Warehousing and storage	U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Communications			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
14	9	7	—	—	66	—	9	—	—	—	26	20	46	11
17 363	1 792	13 324	198	13 777	169	94 778	1 985	5 645	182	7 207	626	341 990	33 751	
4 103	125	10 744	68	6 667	74	77 426	1 095	1 181	12	3 071	87	317 217	29 048	
168	6	631	35	5 527	35	5 849	85	122	—	309	41	11 801	740	
3 935	119	10 113	68	6 140	39	71 577	1 010	1 059	12	2 762	46	305 416	28 328	
1 554	22	3 930	21	3 093	27	59 954	758	1 711	2	1 528	13	3 428	162	
763	—	3 208	16	517	17	2 284	19	30	—	504	8	2 745	133	
298	11	351	5	201	4	51 869	604	35	—	200	—	75	18	
18	—	142	—	691	4	61	—	—	—	158	—	25	—	
14	—	6	—	1 068	6	77	—	—	—	78	—	51	—	
9	7	190	—	19	—	5 020	135	—	—	7	—	14	6	
432	4	27	—	553	—	112	—	91	2	518	—	233	5	
13	—	—	—	—	—	10	—	—	—	5	—	19	—	
521	—	2 246	6	492	6	1 151	11	285	7	257	—	1 629	91	
34	—	21	—	113	—	3 904	77	79	—	115	—	115	—	
415	76	394	16	154	—	3 220	111	92	—	130	1	295 805	27 625	
52	5	151	11	110	—	2 399	30	31	—	67	1	16 386	640	
9	—	103	—	—	—	221	58	—	—	12	—	1 345	117	
60	8	5	—	—	—	38	—	7	—	5	—	419	43	
55	—	5	—	—	—	29	—	17	—	—	—	56 251	2 811	
237	63	80	5	30	—	168	23	31	—	34	—	221 169	23 984	
2	—	50	—	14	—	365	—	6	—	12	—	235	30	
308	5	137	—	189	—	404	—	2	—	52	7	757	23	
1 103	16	3 385	25	2 099	6	2 944	53	430	3	680	25	3 682	427	
21	—	5	—	—	—	243	8	6	—	—	—	50	7	
—	—	22	3	—	—	18	—	—	—	5	—	43	6	
3	—	1 315	13	6	—	43	—	—	—	—	—	273	42	
25	—	—	—	23	—	55	—	62	—	10	—	228	15	
223	37	54	—	71	—	122	7	—	—	52	—	95	21	
360	6	527	7	1 216	6	1 166	21	171	—	329	—	212	23	
471	10	1 425	2	783	—	1 290	18	184	2	284	20	1 257	156	
1 137	13	936	11	3 272	38	3 888	51	1 765	73	1 386	85	11 700	957	
147	—	145	—	237	—	318	—	161	—	273	12	5 617	199	
—	—	—	—	—	—	—	—	5	—	—	—	7	—	
15	—	7	—	19	—	58	—	45	—	28	—	25	3	
—	—	16	—	43	—	—	—	—	—	19	—	159	14	
—	—	—	—	—	—	—	—	—	—	15	—	5	—	
—	—	—	—	—	—	7	—	51	—	5	—	26	—	
132	—	122	—	175	—	253	—	60	—	206	12	5 395	182	
990	13	791	11	3 035	38	3 570	51	1 604	73	1 113	73	6 083	758	
21	—	9	—	18	—	29	—	—	—	16	9	14	7	
27	—	—	—	5	—	11	—	—	—	10	10	26	8	
345	7	123	7	1 011	17	600	9	32	6	408	7	653	51	
264	—	—	—	—	—	10	—	—	—	—	—	—	—	
8	—	398	—	1 165	5	1 572	14	284	—	297	—	1 713	—	
124	6	172	—	356	9	466	8	17	—	15	13	5 166	115	
—	—	—	—	—	—	—	—	22	—	141	—	—	31	

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.

Supervisors, forestry and logging workers—

Forestry workers, except logging—

Timber cutting and logging occupations—

Fishers, hunters, and trappers—

Captains and other officers, fishing vessels—

Fishers—

Hunters and trappers—

Precision production, craft, and repair occupations—

Mechanics and repairers—

Supervisors, mechanics and repairers—

Mechanics and repairers, except supervisors—

Vehicle and mobile equipment mechanics and repairers—

Automobile mechanics—

Bus, truck, and stationary engine mechanics—

Aircraft engine mechanics—

Small engine repairers—

Automobile body and related repairers—

Aircraft mechanics, except engine—

Heavy equipment mechanics—

Farm equipment mechanics—

Industrial machinery repairers—

Machinery maintenance occupations—

Electrical and electronic equipment repairers—

Electronic repairers, communications and industrial equipment—

Drain processing equipment repairers—

Household appliances and power tool repairers—

Telephone line installers and repairers—

Telephone installers and repairers—

Miscellaneous electrical and electronic equipment repairers—

Heating, air conditioning, and refrigeration mechanics—

Miscellaneous mechanics and repairers—

Cannery, watch, and musical instrument repairers—

Carpenters and joiners—

Office machine repairers—

Mechanical controls and valve repairers—

Electrician installers and repairers—

Millwrights and repairers—

Specialized mechanics and repairers, n.e.c.—

Not specified mechanics and repairers—

Construction trades—

Supervisors, construction occupations—

Supervisors, bricklayers, stonemasons, and tile setters—

Supervisors, carpenters and related workers—

Supervisors, electricians and power transmission installers—

Supervisors, painters, paperhangers, and plasterers—

Supervisors, plumbers, pipelayers, and steamfitters—

Supervisors, n.e.c.—

Construction trades, except supervisors—

Bricklayers and stonemasons—

Tile setters, hard and soft—

Carpet installers—

Carpenters—

Drywall installers—

Electricians—

Electrical power installers and repairers—

Painters, construction and maintenance—

Paperhangers—

Employed persons 16 years and over—Con.

Forestry, logging, and fishing occupations—	—
Supervisors, forestry and logging workers—	—
Forestry workers, except logging—	—
Timber cutting and logging occupations—	—
Fishers, hunters, and trappers—	—
Captains and other officers, fishing vessels—	—
Fishers—	—
Hunters and trappers—	—
Precision production, craft, and repair occupations—	—
Mechanics and repairers—	—
Supervisors, mechanics and repairers—	—
Mechanics and repairers, except supervisors—	—
Vehicle and mobile equipment mechanics and repairers—	—
Automobile mechanics—	—
Bus, truck, and stationary engine mechanics—	—
Aircraft engine mechanics—	—
Small engine repairers—	—
Automobile body and related repairers—	—
Aircraft mechanics, except engine—	—
Heavy equipment mechanics—	—
Farm equipment mechanics—	—
Industrial machinery repairers—	—
Machinery maintenance occupations—	—
Electrical and electronic equipment repairers—	—
Electronic repairers, telecommunications and industrial equipment—	—
Data processing equipment repairers—	—
Household appliance and power tool repairers—	—
Telephone line installers and repairers—	—
Telephone installers and repairers—	—
Miscellaneous electrical and electronic equipment repairers—	—
Heating, air conditioning, and refrigeration mechanics—	—
Miscellaneous mechanics and repairers—	—
Camera, watch, and musical instrument repairers—	—
Locksmiths and safe repairers—	—
Office machine repairers—	—
Mechanical controls and valve repairers—	—
Motor vehicle installers and repairers—	—
Millwrights—	—
Specified mechanics and repairers, n.e.c.—	—
Not specified mechanics and repairers—	—
Construction trades—	—
Supervisors, construction occupations—	—
Supervisors, brickmasons, stonemasons, and tile setters—	—
Supervisors, carpenters and related workers—	—
Supervisors, electricians and power transmission installers—	—
Supervisors, painters, paperhangers, and plasterers—	—
Supervisors, plumbers, pipefitters, and steamfitters—	—
Supervisors, n.e.c.—	—
Construction trades, except supervisors—	—
Brickmasons and stonemasons—	—
Tile setters, hard and soft—	—
Carpenters—	—
Drywall installers—	—
Electricians—	—
Electrical power installers and repairers—	—
Painters, construction and maintenance—	—
Paperhangers—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Transportation, communications, and other public utilities—Con.															
Transportation—Con.															
Warehousing and storage	U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Total		Communications		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female			
108	82	—	323	7	16	—	210	7	70	—	422	—	302	—	
13	—	—	15	—	397	—	5	—	7	—	16	—	—	—	
7	—	—	—	—	6	—	—	—	7	—	54	—	—	—	
—	—	—	10	—	9	—	13	6	6	—	—	—	—	—	
14	—	—	9	—	12	—	—	—	—	—	11	—	11	—	
21	3	—	14	—	69	6	—	—	—	—	5	—	7	—	
34	4	—	86	—	77	—	2	—	—	—	258	—	7	—	
14	—	—	174	—	62	—	1 010	54	132	9	76	—	21	—	
6	—	—	45	—	7	—	129	6	20	—	21	—	—	—	
—	—	—	83	—	7	—	75	6	6	—	7	—	—	—	
8	—	—	9	—	39	—	11	—	—	—	19	—	—	—	
—	—	—	20	—	6	—	2	—	7	—	15	—	15	—	
—	—	—	17	—	3	—	37	—	—	—	14	—	6	—	
12 109	1 644	119	3 664	57	13 402	839	2 590	91	2 730	454	12 997	3 705	3 705	—	
8 246	883	46	5 557	71	5 557	557	1 139	67	2 177	353	8 133	2 423	2 423	—	
234	295	25	785	—	3 640	70	94	—	121	14	771	126	126	—	
20	6	—	131	—	—	—	—	—	10	—	128	14	14	—	
6	—	—	—	—	—	—	—	—	—	—	52	24	24	—	
174	246	18	530	—	1 879	21	77	—	80	14	369	29	29	—	
13	29	—	59	—	68	7	15	—	5	—	68	6	6	—	
—	—	—	—	—	11	—	2	—	—	—	16	—	—	—	
—	—	—	—	—	8	—	—	—	—	—	7	—	—	—	
—	—	—	157	—	9	—	—	—	—	—	55	32	32	—	
8	7	—	—	—	14	—	—	—	—	—	38	19	19	—	
—	—	—	—	—	20	—	—	—	—	—	8	—	—	—	
13	7	—	39	—	1 489	29	—	—	13	—	30	—	—	—	
—	—	—	—	—	—	—	—	—	6	—	—	—	—	—	
79	18	—	—	—	34	—	—	—	7	—	27	—	5	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	26	—	—	—	—	—	22	—	—	—	
45	—	—	—	—	—	—	—	—	—	—	5	—	5	—	
34	—	—	—	—	8	—	—	—	7	—	29	23	23	—	
84	29	15	22	4	136	49	—	—	40	6	10	—	10	—	
44	15	—	—	—	25	19	—	—	22	6	—	—	—	—	
6	41	—	—	—	105	30	—	—	5	—	—	—	—	—	
8	14	—	—	—	6	—	—	—	7	—	8	8	8	—	
—	—	—	—	—	—	—	—	—	—	—	11	—	—	—	
17	—	—	14	4	—	—	—	—	—	—	—	—	—	—	
42	8	—	21	—	118	44	36	6	96	53	332	136	136	—	
12	—	—	—	—	7	—	—	—	5	—	—	—	—	—	
—	—	—	5	—	7	—	—	—	11	—	6	—	6	—	
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8	—	—	—	—	28	—	18	3	23	5	20	6	6	—	
—	—	—	—	—	43	—	3	—	12	—	197	117	117	—	
3	8	—	—	—	33	31	18	3	43	34	84	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3 022	978	—	38	—	111	—	5	—	57	—	38	10	10	—	
2 939	933	—	12	—	17	—	—	—	57	—	25	10	10	—	
6	—	—	26	—	81	—	5	—	—	—	13	—	—	—	
77	45	—	46	—	13	—	24	—	15	—	5	—	5	—	
38	—	—	—	—	3 318	102	24	—	15	—	2 026	775	775	—	
—	—	—	—	—	3 318	102	—	—	—	—	2 026	775	775	—	

None are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A.]

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators—

Power plant operators—

Stationary engineers—

Miscellaneous plant and system operators—

Operators, fabricators, and laborers—

Machine operators, assemblers, and inspectors—

Machine operators and tenders, except precision—

Metalworking and plastic working machine operators—

Lathe and turning machine operators—

Milling and planing machine operators—

Rolling machine operators—

Punching and stamping press machine operators—

Drilling and boring machine operators—

Grinding, abrading, buffing, and polishing machine operators—

Forging machine operators—

Numerical control machine operators—

Miscellaneous metal, plastic, stone, and glass working machine operators—

Fabricating machine operators, n.e.c.—

Metal and plastic processing machine operators—

Molding and casting machine operators—

Metal plating machine operators—

Heat treating equipment operators—

Miscellaneous metal and plastic processing machine operators—

Woodworking machine operators—

Wood baffle, routing, and planing machine operators—

Sawing machine operators—

Shaping and joining machine operators—

Nailing and tacking machine operators—

Miscellaneous woodworking machine operators—

Printing machine operators—

Photoengravers and lithographers—

Typesetters and compositors—

Miscellaneous printing machine operators—

Textile, apparel, and furnishings machine operators—

Winding and twisting machine operators—

Knitting, looping, and weaving machine operators—

Textile cutting machine operators—

Textile sewing machine operators—

Shoe machine operators—

Pressing machine operators—

Laundry and dry cleaning machine operators—

Miscellaneous textile machine operators—

Machine operators, assorted materials—

Canning and filling machine operators—

Packaging and filling machine operators—

Measuring and blending machine operators—

Separating, filtering, and clarifying machine operators—

Compressing and compacting machine operators—

Planing and joint sawing machine operators—

Resin, stone, and machine operators—

Machine operators, miscellaneous—

Machine operators, miscellaneous—

Machine operators, miscellaneous—

Machine operators, miscellaneous—

Machine operators, miscellaneous—

Machine operators, miscellaneous—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Transportation, communications, and other public utilities—Con.									
		Transportation—Con.									
Warehousing and storage		U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
63	31	143	6	298	—	115	6	—	—	—	4
147	2	7	—	7	—	33	—	—	—	42	56
101	9	—	—	35	9	37	—	—	—	2	22
131	23	—	—	—	—	33	—	24	—	32	36
—	—	—	—	—	—	6	—	—	—	6	30
37	15	34	21	6	—	24	15	14	8	19	13
842	285	697	310	535	32	192	72	118	9	151	536
1 779	619	870	380	937	67	2 571	237	301	19	589	1 772
—	—	—	—	—	—	—	—	—	—	174	2 842
1 250	362	323	37	2 675	65	1 874	276	519	—	794	3 745
336	13	77	5	2 296	14	959	9	473	—	354	269
7	—	—	—	—	—	14	—	—	—	11	50
824	312	75	15	322	47	810	14	46	—	11	144
24	5	—	—	5	—	—	—	—	—	391	94
24	12	171	17	23	4	54	—	—	—	8	2 080
—	—	—	—	—	—	—	—	—	—	6	16
—	—	—	—	—	—	—	—	—	—	6	6
35	20	—	—	29	—	37	14	—	—	13	57
2 251	1 282	273	51	381	32	788	46	497	—	650	3 313
774	236	115	8	353	26	695	31	483	20	561	3 043
24	—	8	—	13	—	35	—	14	—	18	152
106	—	—	—	6	—	—	—	—	—	71	6
1 347	1 046	150	43	9	6	58	15	—	—	—	92
34 805	898	10 557	419	66 123	1 166	11 392	645	1 428	11	12 396	5 932
19 536	399	10 007	391	3 492	107	9 175	544	740	—	8 745	3 531
88	—	164	11	19	11	80	7	27	—	94	47
16 205	245	4 298	119	2 176	41	4 686	117	493	—	3 376	1 685
2 326	55	5 250	230	247	5	2 197	183	122	—	1 335	224
312	20	120	19	46	—	71	—	5	—	80	371
66	31	25	12	450	39	945	152	58	—	1 739	56
526	48	132	11	524	8	915	44	35	—	474	35
10	—	6	—	22	3	239	41	—	—	1 972	385
3	—	12	—	8	—	10	—	—	—	82	5
150	—	17	—	123	—	53	—	—	—	135	—
21	—	10	—	28	—	12	—	—	—	35	89
75	—	7	—	39	—	35	—	—	—	211	27
46	—	—	—	11	—	—	—	—	—	73	43
8	—	—	—	45	—	6	—	—	—	51	19
—	—	—	—	—	—	—	—	—	—	2	—
40	—	9	9	46 648	782	835	37	92	—	2 132	58
—	—	—	—	22 793	330	664	24	42	—	201	2
10	—	—	—	21 484	436	133	13	35	—	542	22
28	—	9	9	1 771	17	17	—	7	—	1 382	10
2	—	—	—	600	16	21	—	15	—	172	6
15 079	499	524	19	15 860	277	1 329	64	596	11	1 384	224
496	12	—	—	3 218	42	146	6	70	7	84	130
145	—	22	—	165	7	176	—	82	—	89	25
2	—	—	—	3 479	72	11	—	2	—	148	284
30	—	—	—	150	9	6	—	7	—	15	—
265	—	—	—	1 536	7	—	—	24	—	136	42
41	—	32	10	101	4	26	6	39	—	23	37
18	—	12	9	36	—	509	—	54	—	—	268
13 024	358	345	9	2 304	41	509	20	42	—	650	27
1 058	129	113	—	4 851	95	453	32	276	4	259	322
—	—	—	—	—	—	—	—	—	—	—	92

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.

Folding machine operators
Furnace, kiln, and oven operators, except food
Crushing and grinding machine operators
Slicing and cutting machine operators
Motion picture projectors
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified
Fabricators, assemblers, and hand working occupations
Welders and cutters
Soldiers and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural

Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.

Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders

Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States											
Transportation, communications, and other public utilities—Con.											
Utilities and sanitary services											
Electric light and power and electric gas utilities											
Other workers											
Government workers											
Total											
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Communications—Con.										Transportation, communications, and other public utilities—Con.																			
Radio and television broadcasting					Telephone (wire and radio)					Telegraph and miscellaneous communication services					Total					Electric light and power and electric-gas utilities					Gas and steam supply systems				
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female			
72 278	38 793	612 594	454 506	37 427	20 644	362 309	180 538	27 163	13 678	192 132	93 222	61 454	29 326	192 132	93 222	61 454	29 326	192 132	93 222	61 454	29 326	192 132	93 222	61 454	29 326	192 132	93 222		
19 288	3 214	46 014	13 402	8 190	781	54 723	7 914	4 554	730	31 059	4 131	6 662	953	31 059	4 131	6 662	953	31 059	4 131	6 662	953	31 059	4 131	6 662	953	31 059	4 131		
6	—	55	40	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
6	—	18	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
4 082	340	15 236	6 005	3 169	311	33 507	3 888	3 351	475	20 256	2 003	3 203	421	20 256	2 003	3 203	421	20 256	2 003	3 203	421	20 256	2 003	3 203	421	20 256			
3 405	215	6 777	705	2 470	114	9 342	561	769	41	6 910	398	731	44	6 910	398	731	44	6 910	398	731	44	6 910	398	731	44	6 910			
—	—	11	—	17	—	246	—	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
9	—	252	1 282	79	12	9 351	1 471	1 073	199	4 831	543	587	104	4 831	543	587	104	4 831	543	587	104	4 831	543	587	104	4 831			
520	83	2 252	3 896	536	157	12 158	1 769	1 073	220	7 100	1 020	1 595	266	7 100	1 020	1 595	266	7 100	1 020	1 595	266	7 100	1 020	1 595	266	7 100			
110	23	5 850	3 896	67	28	2 137	54	282	15	1 145	23	224	7	1 145	23	224	7	1 145	23	224	7	1 145	23	224	7	1 145			
34	19	117	76	535	26	3 870	590	227	18	1 606	253	229	20	1 606	253	229	20	1 606	253	229	20	1 606	253	229	20	1 606			
70	—	445	119	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
28	—	57	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
42	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
15 130	2 874	30 213	7 186	4 468	444	15 740	3 205	886	197	8 926	1 810	3 188	505	8 926	1 810	3 188	505	8 926	1 810	3 188	505	8 926	1 810	3 188	505	8 926			
66	—	140	—	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
12 867	1 946	8 353	3 578	518	149	6 602	1 971	370	85	4 269	1 293	372	21	4 269	1 293	372	21	4 269	1 293	372	21	4 269	1 293	372	21	4 269			
665	275	8 083	3 578	518	149	6 602	1 971	370	85	4 269	1 293	372	21	4 269	1 293	372	21	4 269	1 293	372	21	4 269	1 293	372	21	4 269			
25	8	1 100	46	6	—	105	46	8	—	58	52	45	—	58	52	45	—	58	52	45	—	58	52	45	—	58			
45	25	3 322	1 84	56	22	529	263	51	26	280	125	108	—	280	125	108	—	280	125	108	—	280	125	108	—	280			
1 462	620	21 175	3 280	3 308	160	7 184	730	323	47	3 657	473	1 682	—	3 657	473	1 682	—	3 657	473	1 682	—	3 657	473	1 682	—	3 657			
Technicians, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales occupations	19 047	31 940	17 749	4 281	1 201	21 647	8 958	1 089	613	10 408	4 753	4 944	1 797	10 408	4 753	4 944	1 797	10 408	4 753	4 944	1 797	10 408	4 753	4 944	1 797	10 408			
Supervisors and proprietors, sales occupations	241	345	703	42	42	1 878	72	90	—	798	41	527	12	798	41	527	12	798	41	527	12	798	41	527	12	798			
Self-employed	229	34	2 190	691	323	42	1 803	64	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales representatives, finance and business services	18 219	6 982	25 139	13 094	2 692	663	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Insurance sales occupations	—	—	147	50	8	—	515	33	48	20	314	13	101	—	314	13	101	—	314	13	101	—	314	13	101	—			
Real estate sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Securities and financial services sales occupations	17 539	6 708	1 772	652	96	52	10 697	71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Advertising and related sales occupations	680	274	23 220	12 392	2 588	611	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales occupations, other business services	62	12	99	13	58	2	471	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales representatives, commodities, except retail	62	12	99	13	58	2	471	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales representatives, mining, manufacturing, and wholesale	501	373	4 462	3 916	1 186	494	7 905	6 885	557	505	4 297	3 808	1 491	4 297	3 808	1 491	355	4 297	3 808	1 491	355	4 297	3 808	1 491	355				
Sales workers, retail and personal services	—	—	26	—	769	182	202	16	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales workers, commodities	—	—	32	—	13	—	93	40	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales counter clerks	6	128	3 572	3 366	218	197	7 429	6 767	514	494	4 111	3 765	1 340	4 111	3 765	1 340	9	4 111	3 765	1 340	9	4 111	3 765	1 340	9	4 111			
Cashiers	320	245	727	448	186	100	118	39	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Street and door-to-door sales workers	19	—	105	81	—	—	63	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
News vendors	24	10	38	23	—	—	110	42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales related occupations	13	6	22	15	—	—	75	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Demonstrators, promoters and models, sales	—	—	8	—	—	—	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Auctioneers	11	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Sales support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Administrative support occupations, including clerical	33 943	28 161	534 640	423 355	24 956	18 482	285 939	163 766	21 520	12 335	150 465	84 338	49 848	150 465	84 338	49 848	26 576	150 465	84 338	49 848	26 576	150 465	84 338	49 848	26 576	150 465			
Supervisors, administrative support occupations	1	938	87 892	37 709	3 835	1 377	18 957	5 530	18 972	256	10 449	2 733	3 262	10 449	2 733	3 262	804	10 449	2 733	3 262	804	10 449	2 733	3 262	804	10 449			
Supervisors, administrative office	754	491	20 723	14 000	937	594	10 434	3 834	469	169	5 741	892	1 635	5 741	892	1 635	534	5 741	892	1 635	534	5 741	892	1 635	534	5 741			
Supervisors, computer equipment operators	71	8	1 919	1 08	108	20	1 003	160	58	11	2																		

Our new estimates based on a search for introduction for measures of variables are interesting from the viewpoint of terms like $\alpha_{11} = A$.

Investigation: community effects and crime linkage studies 120

Endowed income 16 years and over—Con.

Administrative support occupations, increasing secretaries stenographers, and typists

Stenographers

Information banks 22

Inter-ferents 22

Transportation ticket and reservation agents -----
Reservations -----

Records processing occupations, except financial -----

Correspondence clerks.....

Library clerks -----

Records clerks

Bookkeepers, accounting, and auditing clerks
 Payroll and timekeeping clerks

Cost and rate clerks

Duplicating, mail, and other office machine operators -----

Office machine operators, n.e.c.-----

Telephone operators -----

Communications equipment operators, n.e.c. -----

Postal clerks, except mail carriers
11-21 carriers, postal service

Non-Verbal; wrap; poster art 1988
Messengers

Dispatchers

Traffic, shipping, and receiving clerks -----

Meter readers
Weight measurements and charts

10. **Financial Reporting, Structure, and Accounting Data**

Adjusters and Investigators

Investigators and adjusters, except insurance

Bill and Ted's Excellent Collection.....

General Policy Study

100

11

Transportation, communication, and other public utilities												
Utilities and sanitary services												
Electric light and power and electric gas utilities												
Other utilities												
Government workers												
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

United States

Employed persons 16 years and over—Con.

Service occupations.....	3 076	1 229	13 080	5 195	837	234	47 512	6 125	4 579	722
Private household occupations.....	517	53	1 982	513	181	28	9 376	1 023	453	39
Protective service occupations.....	21	—	148	31	19	6	464	10	16	—
Supervisors, protective service occupations.....	—	—	7	—	—	—	45	—	11	—
Supervisors, firefighting and fire prevention occupations.....	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives.....	21	—	141	31	19	6	419	10	5	—
Supervisors, guards.....	8	—	7	—	13	—	294	7	5	—
Fire inspection and fire prevention occupations.....	5	—	9	7	141	—	141	7	—	—
Freightlifting occupations.....	3	—	—	—	6	—	133	—	—	—
Police and detectives.....	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service.....	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers.....	—	—	—	—	—	—	—	—	—	—
Correctional institution officers.....	—	—	—	—	—	—	—	—	—	—
Guards.....	488	53	1 825	475	149	22	8 618	1 006	432	39
Crossing guards.....	—	—	30	13	5	5	18	12	—	—
Guards and police, except public service.....	481	53	1 753	462	126	10	8 544	992	432	39
Protective service occupations, n.e.c.....	7	—	42	—	18	7	56	2	—	—
Service occupations, except protective and household.....	2 559	1 176	11 098	4 682	656	206	38 136	5 102	4 126	683
Food preparation and service occupations.....	192	115	1 288	918	48	13	792	462	107	85
Supervisors, food preparation and service occupations.....	18	18	39	27	7	—	41	14	6	—
Bartenders.....	—	—	—	—	—	—	—	—	—	—
Waiters and waitresses.....	46	29	151	143	23	3	121	77	28	24
Cooks, except short order.....	73	36	220	173	—	—	292	169	38	32
Short-order cooks.....	—	—	—	—	—	—	2	2	—	—
Food counter, fountain and related occupations.....	8	—	334	—	—	—	47	23	9	7
Kitchen workers, food preparation.....	15	12	243	56	15	—	51	21	7	9
Waiters' and waitresses' assistants.....	181	12	98	71	31	—	197	19	6	13
Miscellaneous food preparation occupations.....	20	11	185	114	3	3	31	137	13	—
Health service occupations.....	12	12	97	83	4	4	314	138	17	—
Dental assistants.....	—	—	5	5	—	—	5	5	—	—
Health aides, except nursing.....	12	12	29	22	—	—	151	52	—	—
Nursing aides, orderlies, and attendants.....	—	—	63	56	4	4	158	81	—	—
Cleaning and building service occupations, except household.....	1 761	693	9 110	3 327	587	182	36 344	4 165	3 947	552
Supervisors, cleaning and building service workers.....	75	—	367	82	68	6	1 008	20	79	6
Maid and houseman.....	125	12	722	456	44	—	515	206	152	85
Janitors and cleaners.....	1 505	568	7 935	2 728	469	132	32 844	3 531	3 689	434
Elevator operators.....	—	—	69	61	—	—	68	37	27	27
Pest control occupations.....	—	—	17	—	—	—	493	62	—	—
Personal service occupations.....	594	356	603	354	17	7	486	337	55	46
Supervisors, personal service occupations.....	27	21	95	24	5	—	38	11	—	—
Barbers.....	6	—	16	16	—	—	30	12	—	—
Hairdressers and cosmetologists.....	188	100	130	71	—	—	—	—	—	—
Attendants, amusement and recreation facilities.....	109	7	14	7	7	7	58	22	—	—
Guides.....	38	52	41	12	18	—	123	41	—	—
Ushers.....	—	—	12	—	—	—	—	—	—	—
Public transportation attendants.....	—	—	—	—	—	—	21	—	—	—
Baggage porters and bellhops.....	—	—	—	—	—	—	—	—	—	—
Refuse service aides.....	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household.....	21	16	117	67	—	—	118	64	20	11
Personal service occupations, n.e.c.....	198	154	218	157	5	—	280	183	35	35
Farming, forestry, and fishing occupations.....	132	23	189	13	6	—	3 395	169	109	—
Farm operations and managers.....	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial.....	—	—	7	7	—	—	54	17	—	—
Recreational occupations.....	110	12	145	6	6	—	3 026	149	78	—
Recreation-related occupations.....	—	—	8	—	—	—	72	34	—	—
Groundkeepers and gardeners, except farm.....	110	12	135	4	6	—	2 882	137	78	—
Animal caretakers, except farm.....	—	—	2	2	—	—	312	5	—	—
Graders and sorters, agricultural products.....	—	—	—	—	—	—	37	7	—	—
Inspectors, agricultural products.....	—	—	—	—	—	—	—	—	—	—

Transportation, communications, and other public utilities—Con.

	Communications—Con.				Utilities and sanitary services				Gas and steam supply systems	
	Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Radio and television broadcasting.....	3 076	1 229	13 080	5 195	837	234	47 512	6 125	4 579	722
Telephone (wire and radio).....	517	53	1 982	513	181	28	9 376	1 023	453	39
Telegraph and miscellaneous communication services.....	21	—	148	31	19	6	464	10	16	—
Electric light and power and electric-gas utilities.....	—	—	7	—	—	—	45	—	11	—
Other workers.....	—	—	—	—	—	—	—	—	—	—
Government workers.....	21	—	141	31	19	6	419	10	5	—
Supervisors, police and detectives.....	8	—	7	—	13	—	294	7	5	—
Freightlifting and fire prevention occupations.....	5	—	9	7	141	—	141	7	—	—
Freightlifting occupations.....	3	—	—	—	6	—	133	—	—	—
Police and detectives.....	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service.....	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers.....	—	—	—	—	—	—	—	—	—	—
Correctional institution officers.....	—	—	—	—	—	—	—	—	—	—
Guards.....	488	53	1 825	475	149	22	8 618	1 006	432	39
Crossing guards.....	—	—	30	13	5	5	18	12	—	—
Guards and police, except public service.....	481	53	1 753	462	126	10	8 544	992	432	39
Protective service occupations, n.e.c.....	7	—	42	—	18	7	56	2	—	—
Service occupations, except protective and household.....	2 559	1 176	11 098	4 682	656	206	38 136	5 102	4 126	683
Food preparation and service occupations.....	192	115	1 288	918	48	13	792	462	107	85
Supervisors, food preparation and service occupations.....	18	18	39	27	7	—	41	14	6	—
Bartenders.....	—	—	—	—	—	—	—	—	—	—
Waiters and waitresses.....	46	29	151	143	23	3	121	77	28	24
Cooks, except short order.....	73	36	220	173	—	—	292	169	38	32
Short-order cooks.....	—	—	—	—	—	—	2	2	—	—
Food counter, fountain and related occupations.....	8	—	334	—	—	—	47	23	9	7
Kitchen workers, food preparation.....	15	12	243	56	15	—	51	21	7	9
Waiters' and waitresses' assistants.....	181	12	98	71	31	—	197	19	6	13
Miscellaneous food preparation occupations.....	20	11	185	114	3	3	31	137	13	—
Health service occupations.....	12	12	97	83	4	4	314	138	17	—
Dental assistants.....	—	—	5	5	—	—	5	5	—	—
Health aides, except nursing.....	12	12	29	22	—	—	151	52	—	—
Nursing aides, orderlies, and attendants.....	—	—	63	56	4	4	158	81	—	—
Cleaning and building service occupations, except household.....	1 761	693	9 110	3 327	587	182	36 344	4 165	3 947	552
Supervisors, cleaning and building service workers.....	75	—	367	82	68	6	1 008	20	79	6
Maid and houseman.....	125	12	722	456	44	—	515	206	152	85
Janitors and cleaners.....	1 505	568	7 935	2 728	469	132	32 844	3 531	3 689	434
Elevator operators.....	—	—	69	61	—	—	68	37	27	27
Pest control occupations.....	—	—	17	—	—	—	493	62	—	—
Personal service occupations.....	594	356	603	354	17	7	486	337	55	46
Supervisors, personal service occupations.....	27	21	95	24	5	—	38	11	—	—
Barbers.....	6	—	16	16	—	—	30	12	—	—
Hairdressers and cosmetologists.....	188	100	130	71	—	—	—	—	—	—
Attendants, amusement and recreation facilities.....	109	7	14	7	7	7	58	22	—	—
Guides.....	38	52	41	12	18	—	123	41	—	—
Ushers.....	—	—	12	—	—	—	—	—	—	—
Public transportation attendants.....	—	—	—	—	—	—	21	—	—	—
Baggage porters and bellhops.....	—	—	—	—	—	—	—	—	—	—
Refuse service aides.....	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household.....	21	16	117	67	—	—	118	64	20	11
Personal service occupations, n.e.c.....	198	154	218	157	5	—	280	183	35	35
Farming, forestry, and fishing occupations.....	132	23	189	13	6	—	3 395	169	109	—
Farm operations and managers.....	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial.....	—	—	7	7	—	—	54	17	—	—
Recreational occupations.....	110	12	145	6	6	—	3 026	149	78	—
Recreation-related occupations.....	—	—	8	—	—	—	72	34	—	—
Groundkeepers and gardeners, except farm.....	110	12	135	4	6	—	2 882	137	78	—
Animal caretakers, except farm.....	—	—	2	2	—	—	312	5	—	—
Graders and sorters, agricultural products.....	—	—	—	—	—	—	37	7	—	—
Inspectors, agricultural products.....	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A]

United States

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.

Forestry and logging occupations—Con.

Supervisors, forestry and logging workers.

Forestry workers, except logging.

Timber cutting and logging occupations.

Fishers, hunters, and trappers.

Captains and other officers, fishing vessels.

Fishers.

Hunters and trappers.

Precision production, craft, and repair occupations.

Mechanics and repairers.

Supervisors, mechanics and repairers.

Mechanics and repairers, except supervisors.

Vehicle and mobile equipment mechanics and repairers.

Automobile mechanics.

Bus, truck, and stationary engine mechanics.

Aircraft engine mechanics.

Small engine mechanics.

Automobile body and related repairers.

Aircraft mechanics, except engine.

Heavy equipment mechanics.

Farm equipment mechanics.

Industrial machinery repairers.

Machinery maintenance occupations.

Electrical and electronic equipment repairers.

Electronic repairers, communications and industrial equipment.

Die and mold equipment repairers.

Household appliances and power tool repairers.

Telephone line installers and repairers.

Telephone installers and repairers.

Miscellaneous electrical and electronic equipment repairers.

Heating, air conditioning, and refrigeration mechanics.

Miscellaneous mechanics and repairers.

Camera, watch, and musical instrument repairers.

Locksmiths and safe repairers.

Office machine repairers.

Mechanical controls and valve repairers.

Elevator installers and repairers.

Millwrights.

Specialized mechanics and repairers, n.e.c.

Not specified mechanics and repairers.

Construction trades.

Supervisors, construction occupations.

Supervisors, brickmasons, stonemasons, and tile setters.

Supervisors, carpenters and related workers.

Supervisors, electricians and power transmission installers.

Supervisors, painters, paperhangers, and plasterers.

Supervisors, plumbers, pipefitters, and steamfitters.

Supervisors, r.e.c.

Construction trades, except supervisors.

Brickmasons and stonemasons.

Tile setters, hard and soft.

Carpenters.

Corset installers.

Drywall installers.

Electricians.

Electrical power installers and repairers.

Painters, construction and maintenance.

Paperhangers.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Communications—Con.				Utilities and sanitary services			
	Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total	
	Total	Female	Total	Female	Total	Female	Total	Female
	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.								
Precision production, craft, and repair occupations—Con.								
Construction trades—Con.								
Plumbers, pipefitters, and steamfitters	320	291	71	11	31	—	25	—
Concrete and masonry finishers	—	—	16	—	—	—	25	—
Glaziers	—	—	33	—	21	—	342	—
Insulation workers	—	—	—	—	—	—	737	—
Paving, surfacing, and tamping equipment operators	—	—	11	—	—	—	47	—
Roofers	—	—	—	—	—	—	199	—
Sheetmetal duct installers	—	—	5	—	—	—	1071	—
Structural metal workers	—	—	7	—	—	—	283	—
Drillers, earth	34	—	80	—	144	7	3 864	—
Construction trades, n.e.c.	5	—	56	21	15	—	543	—
Extractive occupations	—	—	16	—	7	—	171	—
Supervisors, extractive occupations	—	—	19	—	—	—	35	—
Drillers, oil well	—	—	15	—	8	—	128	—
Explosives workers	—	—	6	—	—	—	102	—
Mining machine operators	—	—	—	—	—	—	178 990	—
Mining occupations, n.e.c.	1 470	176	9 986	2 920	1 541	609	5 870	5 870
Precision production occupations	692	130	6 868	2 196	573	97	85 641	2 752
Supervisors, production occupations	135	7	497	86	139	33	9 365	126
Precision metalworking occupations	8	—	115	—	5	—	145	—
Tool and die makers	14	6	213	13	38	18	29	—
Precision assemblers, metal	90	1	55	2	66	15	4 756	42
Machinists	7	—	16	—	6	—	3 565	80
Boilermakers	—	—	38	—	7	—	29	—
Precision grinders, filers, and tool sharpeners	—	—	32	—	—	—	55	—
Pottermakers and model makers, metal	—	—	38	—	17	—	55	—
Lay-out workers	—	—	8	—	—	—	32	—
Precious stones and metals workers (jewelers)	—	—	14	—	—	—	665	—
Engravers, metal	16	—	—	—	—	—	22	—
Sheet metal workers	—	—	20	—	—	—	63	—
Miscellaneous precision metal workers	7	—	15	—	—	—	11	—
Precision woodworking occupations	7	—	—	—	—	—	25	—
Pottermakers and model makers, wood	—	—	—	—	—	—	6	—
Cabinet makers and bench carpenters	—	—	—	—	—	—	21	—
Furniture and wood finishers	—	—	—	—	—	—	357	—
Miscellaneous precision woodworkers	3	—	26	—	—	—	274	—
Precision textile, apparel, and furnishings machine workers	3	—	7	—	—	—	5	—
Tressmakers	—	—	—	—	—	—	40	—
Leathers	—	—	—	—	—	—	2	—
Shoemakers	—	—	—	—	—	—	15	—
Shoe repairers	—	—	11	—	—	—	30	—
Apparel and fabric patternmakers	—	—	150	51	126	76	1 277	72
Miscellaneous precision apparel and fabric workers	56	9	6	—	—	—	65	—
Precision workers, assorted materials	—	—	5	—	—	—	7	—
Hand molders and shapers, except jewelers	—	—	5	—	—	—	56	—
Pottermakers, lay-out workers, and cutters	15	8	20	6	113	76	27	—
Optical goods workers	—	—	83	40	—	—	14	—
Dental laboratory and medical appliance technicians	—	—	31	—	13	—	1008	9
Bookbinders	1	—	23	10	6	—	134	19
Electrical and electronic equipment assemblers	40	—	23	10	6	—	106	14
Miscellaneous precision workers, n.e.c.	9	—	23	10	6	—	28	—
Precision food production occupations	2	—	—	—	—	—	—	—
Butchers and meat cutters	7	—	—	—	—	—	—	—
Bakers	—	—	—	—	—	—	—	—
Precision food production occupations	42	—	1 385	379	599	396	3 162	140
Precision inspectors, testers, and related workers	42	—	1 385	379	599	396	3 153	134
Inspectors, testers, and graders	—	—	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	—	—	—	—
Utilities and sanitary services								
Electric light and power and electric-gas utilities								
Government workers								
Other workers								
Gas and steam supply systems								
Total	5 327	67	2 438	311	1 451	45	9 425	93
Transportation, communications, and other public utilities—Con.								
Gas and steam supply systems	—	—	—	—	—	—	—	—
Electric light and power and electric-gas utilities	—	—	—	—	—	—	—	—
Government workers	—	—	—	—	—	—	—	—
Other workers	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Precision production—Con.															
Plant and system operators															
Power plant operators															
Stationary engineers															
Miscellaneous plant and system operators															
Operators, fabricators, and laborers															
Machine operators, assemblers, and inspectors															
Machine operators and tenders, except precision															
Metalworking and plastic working machine operators															
Lathe and turning machine set-up operators															
Lathe and turning machine operators															
Planing and shaping machine operators															
Routing and slotting machine operators															
Drilling and boring machine operators															
Grinding, abrading, buffing, and polishing machine operators															
Forging machine operators															
Numerical control machine operators															
Miscellaneous metal, plastic, stone, and glass working machine operators															
Fabricating machine operators, n.e.c.															
Metal and plastic processing machine operators															
Molding and casting machine operators															
Metal plating machine operators															
Heat treating equipment operators															
Miscellaneous metal and plastic processing machine operators															
Woodworking machine operators															
Wood lathe, routing, and planing machine operators															
Sawing machine operators															
Shaping and joining machine operators															
Noting and locking machine operators															
Miscellaneous woodworking machine operators															
Printing machine operators															
Printing machine operators															
Photoengravers and lithographers															
Typesetters and compositors															
Miscellaneous printing machine operators															
Textile, apparel, and furnishings machine operators															
Winding and twisting machine operators															
Knitting, looping, tapping, and weaving machine operators															
Textile cutting machine operators															
Textile sewing machine operators															
Shoe machine operators															
Pressing machine operators															
Laundry and dry cleaning machine operators															
Miscellaneous textile machine operators															
Machine operators, assorted materials															
Cementing and gluing machine operators															
Extruding and forming machine operators															
Mixing and blending machine operators															
Separating, filtering, and dewatering machine operators															
Compressing and compacting machine operators															
Painting and paint spraying machine operators															
Roasting and baking machine operators, food															
Washing, cleaning, and pickling machine operators															
Transportation, communications, and other public utilities—(con.)															
Utilities and sanitary services															
Electric light and power and electric gas utilities															
Other workers															
Gas and steam supply systems															
Total															
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con.

Communications—Con.				Utilities and sanitary services							
Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total		Electric light and power and electric-gas utilities		Gas and steam supply systems	
Total	Female	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
Employed persons 16 years and over—Con.											
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators and tenders, except precision—Con.											
Machine operators, assorted materials—Con.											
Folding machine operators											
Furnace, ladle, and oven operators											
Crushing and grinding machine operators											
Slicing and cutting machine operators											
Motion picture projectionists											
Photographic process machine operators											
Miscellaneous machine operators, n.e.c.											
Machine operators, not specified											
Fabricators, assemblers, and hand working occupations											
Welders and cutters											
Soldiers and brazers											
Assemblers											
Hand cutting and trimming occupations											
Hand molding, casting, and forming occupations											
Hand painting, coating and decorating occupations											
Hand engraving and printing occupations											
Hand grinding and polishing occupations											
Miscellaneous hand working occupations											
Production inspectors, testers, samplers, and weighers											
Production inspectors, checkers, and examiners											
Production testers											
Production samplers and weighers											
Graders and sorters, except agricultural											
Transportation and material moving occupations											
Motor vehicle operators											
Supervisors, motor vehicle operators											
Truck drivers, heavy											
Truck drivers, light											
Driver-sales workers											
Bus drivers											
Taxicab drivers and chauffeurs											
Parking lot attendants											
Motor transportation occupations, n.e.c.											
Rail transportation occupations											
Railroad conductors and yardmasters											
Locomotive operating occupations											
Railroad brake, signal, and switch operators											
Rail vehicle operators, n.e.c.											
Water transportation occupations											
Ship captains and mates, except fishing boats											
Sailors and deckhands											
Marine engineers											
Bridge, lock, and lighthouse tenders											
Material moving equipment operators											
Supervisors, material moving equipment operators											
Operating engineers											
Longshore equipment operators											
Hoist and winch operators											
Crane and tower operators											
Excavating and loading machine operators											
Grader, dozer, and scraper operators											
Industrial truck and tractor equipment operators											
Miscellaneous material moving equipment operators											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

	1	503	190	6 787	2 228	922	103	130 784	4 382	5 793	263	24 104	1 284	6 666	213
Operators, fabricators, and laborers—Con.															
Franchises, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers,															
n.e.c.	5			104	30	5	5	492	14	44			76	6	
Helpers, mechanics and repairmen	13			23	17			1 205	72	102	19		45	110	
Helpers, construction and extractive occupations				23	17	2		3 224	155	548	47		80	317	26
Helpers, construction trades				15	8	2		3 021	145	533	47		1 955	295	26
Helpers, surveyor				8				203	10	15			1 849	26	
Helpers, extractive occupations													106	22	
Construction laborers	28			904	83										
Production helpers				447	167	289		12 219	203	1 319	22		137	1 899	23
Freight, stock, and material handlers	832	41		744	224	16	6	3 165	129	347			105	267	
Garbage collectors				18		96	21	59 370	1 437	234	3		92	425	
Stereos	8							56 241	1 287	112			269	122	
Stock handlers and bidders	20			260	115	7		485					6		
Live feeders and officers	5			10		32	6	885	75	15			50		
Feeders, stock, and material handlers, n.e.c.	36			456	109	57	15	1 886	18	4			7	69	
Freight									57	103	3		538	163	
General freight						14									
Vehicle trailers and related occupations				289	78	14	8	1 450	25	62			372	332	2
Truck drivers	1			231	62	17		324	49	28			17	6	
Vehicle workers and packagers	12			135	135	22	2	324	37	239			10	10	2
Laborers, except construction	609	135		3 701	1 435	478	61	48 408	2 235	3 104	159	11 153	775	3 230	153

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data and estimates based on a sample. see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

[illegible]

Employed persons by economic sector, sex, and age For meaning of symbols see Introduction. For definitions of terms, see appendix A)

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction.

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Managerial and professional specialty occupations—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	44 245	23 303	24 108	13 361	13 187	7 648	1 991 065	815 356	1 097 620	429 234	153 979	49 172	40 941	18 288	60 293	23 495
Technicians and related support occupations	5 473	3 833	5 207	3 910	1 768	357	46 461	9 881	31 377	5 437	1 635	553	326	99	930	137
Health technicians and technicians	167	45	1 018	70	18	4	291	386	475	140	—	—	—	—	—	—
Clinical laboratory technicians and technicians	12	6	21	12	4	4	—	—	93	11	—	—	—	—	—	—
Health hygienists	6	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technicians and technicians	7	7	7	—	—	—	—	—	—	—	—	—	—	—	—	—
Radiologic technicians	7	7	8	—	—	—	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	135	26	982	58	14	—	481	161	316	111	—	—	—	—	6	—
Health technicians and technicians, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and related technicians and technicians	3 259	391	2 521	484	917	114	18 886	2 834	14 331	1 738	449	66	124	33	534	67
Electrical and electronic technicians	383	39	2 501	25	248	14	9 252	722	8 305	643	153	15	38	10	10	14
Industrial engineering technicians	14	7	23	—	18	7	213	48	115	28	18	—	—	—	—	—
Mechanical engineering technicians	32	—	—	—	5	—	136	11	95	—	—	—	—	—	5	—
Engineering technicians, n.e.c.	1 180	196	1 528	395	152	34	4 597	1 393	2 269	587	90	13	5	—	128	18
Drafting occupations	1 360	140	555	64	59	4	4 501	608	412	183	183	33	5	23	359	35
Surveying and mapping technicians	290	9	114	—	82	—	187	52	—	21	5	—	—	—	5	—
Science technicians	882	114	854	168	72	17	3 292	1 059	873	198	65	15	19	—	67	—
Biological technicians	78	10	70	18	19	—	1 022	411	60	19	5	—	—	—	—	—
Chemical technicians	410	40	422	113	22	7	1 051	250	21	20	15	7	—	—	22	—
Science technicians, n.e.c.	394	44	362	37	50	—	1 299	398	402	159	45	3	19	—	45	—
Technicians, except health, engineering, and science	1 165	283	814	188	761	10	23 322	5 602	15 698	3 361	1 121	472	183	66	323	70
Airplane pilots and navigators	—	—	24	—	9	—	1 029	21	506	21	7	—	10	—	51	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	94	21	72	17	32	11	421	45	335	36	—	—	—	—	5	—
Computer programmers	401	91	141	51	343	149	11 477	3 684	7 348	2 275	596	211	134	43	179	57
Tool programmers, numerical control	12	6	—	—	—	—	320	97	220	79	6	—	—	—	5	—
Legal assistants	28	12	37	30	25	25	800	618	429	373	241	233	15	9	2	2
Technicians, n.e.c.	630	153	540	90	352	37	9 275	1 137	6 860	577	271	28	24	14	81	11
Sales occupations	2 261	801	1 763	399	982	495	1 045 889	146 258	573 776	64 322	86 399	5 177	22 015	4 023	31 190	2 892
Supervisors and proprietors, sales occupations	174	5	204	12	77	2	149 921	14 221	84 652	5 975	14 809	738	2 238	410	4 076	300
Skilled	174	5	204	12	77	2	149 921	14 221	84 652	5 975	14 809	738	2 238	410	4 076	300
Self-employed	—	—	—	—	—	—	108 119	9 554	63 351	4 374	1 374	517	1 432	276	3 141	241
Sales representatives, finance and business services	—	—	—	—	—	—	40 802	4 667	21 671	1 793	3 455	134	826	134	935	59
Insurance sales occupations	—	—	—	—	—	—	2 235	387	964	274	103	35	29	—	54	—
Real estate sales occupations	20	6	—	—	26	—	726	99	321	42	22	—	8	—	19	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	—	—	—	—	—	—	1 509	488	643	252	81	35	21	—	35	—
Sales occupations, other business services	1 228	130	1 109	185	479	144	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	56	—	46	—	7	—	808 504	105 520	427 113	48 060	44 865	2 378	19 190	3 321	26 104	2 180
Sales engineers	56	—	46	—	7	—	—	176	9 565	143	260	—	40	—	253	7
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	795 714	105 344	417 548	47 917	44 605	2 378	19 150	3 321	25 851	2 173
Sales workers, retail and personal services	776	666	398	202	386	349	82 798	24 990	60 212	9 672	26 484	2 010	412	266	944	405
Sales workers, commodities	46	48	48	12	7	—	49 990	3 857	48 549	3 705	14 910	1 369	86	38	131	14
Sales counter clerks	13	7	—	5	—	—	1 673	340	1 329	202	89	2	2	—	13	4
Cashiers	683	653	333	179	353	336	20 633	16 531	4 691	3 768	637	126	179	126	344	292
Street and door-to-door sales workers	28	6	6	6	26	13	8 991	3 943	5 356	1 947	362	102	139	102	437	95
News vendors	6	6	6	—	—	—	—	287	50	50	38	7	6	—	19	—
Sales related occupations	7	—	—	—	7	—	2 431	961	835	321	138	16	126	26	12	7
Demonstrators, promoters and models, sales	6	—	—	—	—	—	1 202	815	516	298	14	16	27	22	7	7
Auctioneers	1	—	—	—	7	—	939	63	160	19	124	13	13	—	—	—
Sales support occupations, n.e.c.	—	—	—	—	—	—	290	83	159	4	—	—	86	4	5	—
Administrative support occupations, including clerical	36 531	21 669	17 138	12 052	10 437	6 796	898 715	659 217	492 467	359 475	65 945	43 442	18 600	14 166	28 173	20 666
Supervisors, administrative support occupations	2 411	1 040	1 113	381	750	316	50 419	20 979	26 732	11 137	3 398	1 082	1 130	498	1 810	726
Supervisors, general office	1 374	717	717	278	498	217	27 470	13 737	14 361	7 020	1 806	705	1 330	340	846	395
Supervisors, computer equipment operators	68	24	26	4	55	26	2 018	876	1 062	455	116	25	6	6	54	37
Supervisors, financial records processing	393	232	164	90	102	23	9 546	4 947	5 427	2 949	618	263	210	130	403	221
Chief communications operators	76	76	175	30	10	7	146	26	63	12	15	—	6	6	6	6
Supervisors, distribution, scheduling, and adjusting clerks	500	500	31	6	85	43	11 239	3 393	5 819	701	843	89	338	16	501	67
Supervisors, equipment operators	852	477	287	181	338	164	30 876	22 598	16 439	12 474	2 603	1 806	579	497	785	687
Computer operators	817	551	277	179	314	147	29 530	21 651	15 851	12 057	2 484	1 712	531	460	728	650
Peripheral equipment operators	35	26	10	2	24	17	1 346	21 947	588	12 517	119	94	48	37	57	37

tion of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Water supply and irrigation				Sanitary services				Not specified utilities				Motor vehicles and equipment			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	7 224	7 021	5 314	5 245	2 057	2 005	217 531	214 493	122 136	120 491	11 193	11 040	4 382	4 303	7 399	7 232
Administrative support occupations, including clerical—Con.	5 596	5 473	4 326	4 273	1 690	1 651	196 853	194 474	110 273	108 952	10 264	10 137	3 833	3 766	6 812	6 674
Secretaries, stenographers, and typists—	216	216	84	84	98	95	1 357	1 328	776	767	94	94	376	377	69	69
Stenographers	1 412	1 332	904	888	269	259	19 321	18 691	11 087	10 772	1 254	1 066	522	510	518	489
Typists	513	466	491	406	166	137	23 905	21 688	14 288	12 956	1 254	1 066	782	759	770	718
Information clerks	53	40	28	10	38	14	3 046	2 564	1 625	1 386	140	128	76	61	94	80
Interviewers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	5	—	302	6	5	—	390	172	10 009	9 796	11	—	—	7	3	3
Receptionists	321	316	60	291	93	93	16 543	16 157	10 009	9 796	797	755	593	585	627	606
Information clerks, n.e.c.	134	110	155	99	30	30	3 926	2 795	2 513	1 702	306	183	106	106	46	29
Records processing occupations, except financial	1 715	871	368	189	712	455	55 172	35 641	30 078	18 250	4 305	2 163	1 640	1 366	1 315	685
Classified-ad clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Order clerks	6	6	161	46	616	—	488	353	165	126	12	6	11	11	2	2
Correspondence clerks	1 377	617	302	161	398	—	784	618	447	345	37	37	27	27	26	20
Personnel clerks, except payroll and timekeeping	35	31	140	25	14	14	911	817	22 052	11 370	3 444	1 394	1 292	1 059	961	403
Personnel clerks	6	6	—	—	—	—	10 164	8 995	6 011	5 359	66	59	3	3	5	5
Financial clerks	251	181	140	104	62	43	1 621	1 194	6 011	5 359	16	16	267	236	272	222
Records clerks	40	30	14	12	5	—	1 621	1 194	6 011	5 359	116	78	40	30	44	28
Financial records processing occupations	6 207	5 440	3 331	2 924	1 286	1 045	206 943	185 730	111 095	100 503	15 246	13 869	3 551	3 273	7 761	6 984
Bookkeepers, accounting, and auditing clerks	4 067	3 713	2 498	2 290	901	734	178 711	161 864	94 783	86 998	13 522	12 456	2 957	2 728	6 659	6 136
Payroll and timekeeping clerks	401	332	329	298	72	47	5 273	4 883	2 604	2 398	433	379	63	58	259	229
Calling clerks	1 582	1 452	425	387	266	238	15 781	13 827	9 291	8 091	841	698	330	312	569	460
Cost and rate clerks	43	29	64	34	26	13	5 611	3 784	3 563	2 261	346	246	163	137	190	89
Billing, posting, and calculating machine operators	114	114	15	15	21	13	1 567	1 372	854	755	104	90	38	38	84	70
Duplicating, mail, and other office machine operators	43	29	19	12	31	16	1 426	1 056	964	619	100	76	31	31	8	8
Duplicating machine operators	—	—	—	—	9	9	558	257	389	185	19	9	—	—	—	—
Mail preparing and paper handling machine operators	8	8	12	12	14	8	240	193	129	107	25	25	14	14	—	—
Office machine operators, n.e.c.	35	21	7	7	14	7	628	606	446	327	56	42	17	17	8	8
Communications equipment operators	181	150	85	23	147	128	5 426	5 117	3 397	3 199	405	372	153	153	203	190
Telephone operators	181	150	85	23	129	122	5 426	5 028	3 397	3 199	405	372	153	153	203	190
Telegraphers	—	—	—	—	18	6	52	49	52	33	—	—	9	9	7	—
Communications equipment operators, n.e.c.	—	—	—	—	—	—	55	24	49	24	—	—	—	—	—	—
Mail and message distributing occupations	343	166	197	28	112	43	9 115	3 405	4 170	1 710	622	178	205	76	154	61
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	268	134	136	23	105	43	6 634	2 891	3 057	1 492	428	132	152	67	128	55
Mail clerks, except postal service	75	32	5	5	—	—	2 481	514	1 113	218	194	46	53	28	—	—
Messengers	11 179	11 334	2 631	512	1 889	289	160 414	43 902	92 205	24 726	16 545	4 260	3 435	1 004	4 518	844
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dispatchers	636	110	493	158	88	6	7 599	2 119	3 824	1 526	248	46	61	6	556	83
Production coordinators	287	111	339	92	235	87	8 213	3 692	3 870	1 488	499	138	61	45	139	20
Traffic, shipping, and receiving clerks	129	21	98	6	44	5	66 739	20 154	38 857	5 366	8 078	2 440	1 670	241	1 531	183
Stock and inventory clerks	761	116	502	108	207	34	59 224	20 056	36 509	12 585	8 078	2 440	1 670	241	1 531	183
Meier readers	9 153	884	738	45	1 210	85	10 124	3 087	3 768	861	1 039	188	148	88	501	85
Meier readers, measurers, and checkers	31	—	389	77	14	7	197	60	92	32	9	—	—	—	—	—
Samplers	6	—	—	—	—	—	6 566	3 671	4 714	2 487	514	206	159	93	114	43
Expeditors	121	70	37	26	73	47	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	35	22	35	—	13	13	1 758	1 063	10 079	5 053	118	34	40	40	30	2
Insurance adjusters, examiners, and investigators	944	475	343	141	553	317	15 903	8 284	10 079	5 053	118	34	40	40	30	2
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Eligibility clerks, social welfare	359	175	134	48	375	214	12 078	5 959	7 609	3 583	952	302	414	309	205	73
Bill and account collectors	10	10	6	—	—	6	110	63	30	17	7	—	—	—	—	—
Miscellaneous administrative support occupations	575	290	203	93	172	97	3 715	2 262	2 440	1 453	143	90	91	63	91	37
General office clerks	4 919	3 900	2 959	2 010	2 396	1 881	121 385	96 324	60 884	48 357	9 172	7 138	2 207	1 834	3 154	2 421
Bank tellers	3 830	3 134	2 340	1 664	1 789	1 454	84 623	67 302	41 439	33 009	5 855	4 515	1 696	1 412	2 383	1 856
Producers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Date-entry keyers	566	543	176	152	240	8	304	250	103	90	8	8	—	—	—	—
Statistical clerks	201	119	172	57	122	80	23 533	21 738	12 095	11 548	2 294	2 162	302	283	442	420
Administrative support occupations, n.e.c.	13	13	6	—	—	—	3 553	2 451	1 777	1 177	237	169	30	28	55	42
	309	91	285	137	237	106	9 295	4 510	5 524	2 554	648	292	169	91	234	105

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Total		Total		Motor vehicles and equipment		Furniture and home furnishings	
	Total		Total		Total		Total		Total		Total		Total		Total	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States																
Service occupations	7 661	4 781	9 217	6 851	1 092	1 69	60 916	15 302	23 600	5 303	2 938	530	874	336	1 838	274
Private household occupations	751	28	1 483	113	163	23	7 466	480	3 707	262	480	47	109	12	440	29
Protective service occupations	39	—	39	—	7	—	23	7	13	7	32	—	7	—	—	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	39	—	39	—	7	—	296	6	134	—	—	—	7	—	2	—
Supervisors, fire prevention occupations	40	—	30	7	8	—	289	—	233	—	—	—	—	—	—	—
Firefighting and fire prevention occupations	21	—	16	7	—	—	164	—	117	—	—	—	—	—	—	—
Fire inspection and fire prevention occupations	19	—	14	—	8	—	125	—	116	—	—	—	—	—	2	—
Freightlifting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	672	28	1 414	106	148	23	6 858	467	3 317	255	448	47	102	12	438	29
Crossing guards	6	—	—	—	—	—	21	—	13	—	—	—	—	—	—	—
Guards and police, except public service	660	22	1 394	106	148	23	6 793	446	3 274	241	448	47	102	12	430	21
Protective service occupations, n.e.c.	6	—	20	—	—	—	42	21	30	14	—	—	—	—	8	8
Service occupations, except protective and household	6 910	4 50	7 794	572	939	146	53 450	14 822	19 893	5 041	2 458	483	765	324	1 398	245
Food preparation and service occupations	93	31	46	—	33	13	9 733	5 600	1 470	881	308	186	—	—	40	5
Supervisors, food preparation and service occupations	—	—	—	—	—	—	1 153	282	89	71	7	7	—	—	—	—
Bar tenders	10	—	13	—	7	—	172	61	35	—	—	—	—	—	—	—
Waiters and waitresses	20	—	—	—	—	—	31	831	162	117	39	69	—	—	—	—
Cooks, except short order	45	—	25	—	—	—	3 250	1 840	404	288	77	39	—	—	14	5
Short-order cooks	—	—	—	—	—	—	41	29	24	12	—	—	—	—	—	—
Food counter, fountain and related occupations	—	—	4	—	—	—	764	270	332	52	99	8	—	—	15	—
Kitchen workers, food preparation	—	—	—	—	—	—	1 341	972	114	92	23	3	—	—	8	—
Waiters and waitresses' assistants	—	—	—	—	—	—	301	161	64	52	17	17	—	—	8	—
Miscellaneous food preparation occupations	18	6	4	—	19	6	1 740	1 154	246	190	46	40	—	—	—	—
Health service occupations	20	13	89	34	6	2	482	326	115	66	23	12	—	—	5	5
Dental assistants	—	—	—	—	—	—	5	5	5	5	—	—	—	—	—	—
Health aides, except nursing	—	—	—	—	—	—	135	78	37	16	7	—	—	—	—	—
Nursing aides, orderlies, and attendants	20	13	15	10	4	2	352	242	73	45	16	12	—	—	5	5
Cleaning and building service occupations, except household	6 695	352	7 539	528	837	113	40 506	7 380	17 349	3 469	2 092	269	738	297	1 326	229
Supervisors, cleaning and building service workers	60	45	395	2	15	—	3 193	84	388	55	35	7	5	—	34	—
Maid and housemen	163	45	427	48	77	40	3 193	1 259	1 393	105	105	26	135	97	47	20
Janitors and cleaners	6 429	307	6 282	416	725	73	35 089	5 988	15 417	2 829	1 979	236	583	200	1 245	209
Elevator operators	8	—	—	—	—	—	1 156	49	—	36	23	—	15	—	—	—
Pest control occupations	35	—	485	62	—	—	172	—	—	—	—	—	—	—	—	—
Personal service occupations	102	54	60	10	53	18	2 639	1 516	959	625	35	16	27	27	27	6
Supervisors, personal service occupations	13	6	5	—	—	—	502	114	208	101	4	—	—	—	—	—
Barbers	13	5	10	—	—	—	42	282	121	102	8	8	11	11	—	—
Hairdressers and cosmetologists	—	—	—	—	—	—	338	74	76	19	15	—	—	—	—	—
Attendants, amusement and recreation facilities	12	6	6	—	12	—	166	33	—	—	—	—	—	—	—	—
Guides	14	—	—	—	—	—	24	3	5	—	—	—	—	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	9	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Waitress service aides	30	25	5	—	—	—	476	225	83	56	—	—	—	—	—	—
Child care workers, except private household	20	12	34	10	26	18	1 058	808	431	344	8	8	16	16	27	6
Personal service occupations, n.e.c.	852	38	819	61	105	—	8 045	2 152	1 589	152	130	1	5	—	570	36
Farming, forestry, and fishing occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	32	—	5	—	5	—	1 772	1 051	44	33	—	—	—	—	—	—
Related agricultural occupations	753	35	803	56	100	—	4 136	885	667	55	98	1	5	—	83	12
Supervisors, related agricultural occupations	10	—	—	—	—	—	79	8	4	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	727	35	732	44	100	—	2 676	715	576	30	78	—	5	—	67	6
Animal caretakers, except farm	16	—	14	—	—	—	1 363	162	81	25	20	—	—	—	16	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	29	7	—	—	18	—	6	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Utilities and sanitary services—Con.				Wholesale trade, total				Total				Wholesale trade, durable goods				Lumber and construction materials			
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Total		Total		Total		Total		Total		Total	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Farming, forestry, and fishing occupations—Con.																				
Forestry and logging occupations	36	3							1 204	90	818	55	24				471	15		
Supervisors, forestry and logging workers	2								38		25						14			
Forestry workers, except logging	2								189	33	109	25					6			
Timber cutting and logging occupations	31	3							977	57	684	30	8				451	12		
Fishers, hunters, and trappers	15								933	126	60	9					16			
Captains and other officers, fishing vessels	9								735	107	16									
Fishers	7								41	14	28	9								
Hunters and trappers									462 801	32 450	315 077	14 943	31 115				17 066	9		
Precision production, craft, and repair occupations	61 661	1 247	44 749	1 055	7 465	199	7 465	199	222 081	4 439	186 011	3 688	19 985				3 171	553		
Mechanics and repairers	13 366	164	9 778	60	2 024	39	2 024	39	7 855	4 289	3 566	101	32				290	78		
Supervisors, mechanics and repairers	12 734	154	9 192	60	1 874	39	1 874	39	214 226	4 289	179 937	3 587	19 035				2 881	13		
Mechanics and repairers, except supervisors	1 460		4 220	32	270		270		83 296	266	82 470	575	14 124				980	7		
Vehicle and mobile equipment mechanics and repairers	691		2 834	22	184		184		29 582	26	29 556	35	2 001				208			
Automobile mechanics	101		967	10	5		5		12 958	26	12 932	26	26				19			
Bus, truck, and stationary engine mechanics	4		26						1 483	14	1 469	14	1				31			
Aircraft engine mechanics	2		69						2 332	46	2 286	26	1				87			
Small engine repairers	38		4						58		54						6			
Automobile body and related repairers	3								12 798	20	12 778	19	316				127			
Aircraft mechanics, except engine	257		299		52		52		26 057	224	25 833	218	61				22			
Heavy equipment mechanics	364		21						21 786	386	21 400	231	663				496			
Farm equipment mechanics	1 908		2 278	9	218		218		616	54	647	11	36				68			
Industrial machinery repairers	81		231						18 195	1 017	16 178	917	30				116			
Machinery maintenance occupations	309		192		474		474		4 768	182	4 586	173	322				17			
Electrical and electronic equipment repairers	167		42		168		168		7 298	532	6 766	502	73				26			
Electronic repairers, communications and industrial equipment	11		40		5		5		4 156	90	4 066	37	6							
Data processing equipment repairers	34		35		119		119		1 352	103	1 249	26	44				49			
Household appliance and power tool repairers	12		22		114		114		1 746	69	1 677	69	168				17			
Telephone line installers and repairers	33		35						21 837	161	21 676	152	145				34			
Miscellaneous electrical and electronic equipment repairers	52		53		37		37		64 270	2 040	62 230	1 701	3 417				187			
Heating, air conditioning, and refrigeration mechanics	41		49		50		50		1 275	188	1 087	11	22				25			
Miscellaneous mechanics and repairers	8 935	132	2 272	19	777		777		550	29	521	29	2				45			
Camera, watch, and musical instrument repairers	29		32		2		2		14 584	492	14 092	469	6				24			
Locksmiths and safe repairers									3 508	46	3 462	46	40				29			
Office machine repairers	6								3 508	46	3 462	46	40				29			
Mechanical controls and valve repairers	7 006		257	5	207	8	207	8	2 851	151	2 700	107	20				15			
Electrician installers and repairers	15				6		6		24 968	659	24 309	489	2 271				400			
Millwrights	42		93		21		21		15 900	451	15 449	356	958				368			
Specialized mechanics and repairers, n.e.c.	590		680		132		132		47 594	1 203	46 391	896	1 245				6 428			
Not specified mechanics and repairers	1 247	8	1 160		409	7	409	7	2 257	40	2 217	22	72				277			
Construction trades	12 489	160	7 227	172	3 487	37	3 487	37	45 337	1 163	44 174	874	1 173				6 151			
Supervisors, construction occupations	1 645	22	3 235	108	961	37	961	37	323	8	315	2	3 595				82			
Superintendents, bricklayers, stone masons, and tile setters	6								390	11	379	11	5				21			
Superintendents, carpenters and related workers	101		89	7	45		45		2 752	79	2 673	79	2 550				66			
Superintendents, electricians and power transmission installers									6 657	209	6 448	125	194				41			
Superintendents, painters, paperhangers, and plasterers	156		110	2	7		7		106	7	105	7	25				46			
Superintendents, plumbers, pipefitters, and steamfitters	1 382	20	3 029	99	909	37	909	37	7 905	253	7 652	7	39				133			
Superintendents, n.e.c.	10 844	138	3 992	64	2 526		2 526		263	13	250	13	22				4			
Construction trades, except supervisors	92		193	7	6		6		3 573	9	3 564	7	366				121			
Bricklayers and stone masons																				
Tile setters, hard and soft																				
Carpenter installers																				
Carpenters	324		301		107		107													
Drywall installers																				
Electricians	1 172		875	28	575		575													
Electrical power installers and repairers	430		186		1 462		1 462													
Painters, construction and maintenance	264		430	13	32		32													
Painters			6																	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Wholesale trade, total				Wholesale trade, durable goods				
	Utilities and sanitary services—Con.												
	Water supply and irrigation	Sanitary services	Not specified utilities		Total	Female	Total	Female	Motor vehicles and equipment	Furniture and home furnishings	Lumber and construction materials		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Construction trades—Con.													
Plasterers	7 403	1 153	251	2	57	171	2	57	13 996	155	151	11	46
Masons, pipelayers, and steamfitters	39	44	12	12	15 153	114	12	100	12	12	6	77	77
Concrete and masonry finishers	17	—	—	52	2 086	52	52	100	2 013	52	113	51	61
Glaziers	26	4	—	56	1 379	56	56	1 244	1 244	56	—	—	1 735
Insulation workers	5	11	—	20	20	20	20	20	20	20	—	—	684
Paving, surfacing, and tamping equipment operators	—	6	10	5	131	20	5	5	123	20	5	—	11
Roofers	—	11	12	—	2 465	20	—	—	2 439	14	—	—	108
Sheetmetal duct installers	18	24	12	—	484	11	—	—	435	5	—	—	69
Structural metal workers	72	6	59	14	59	11	11	36	36	5	—	—	4
Drillers, earth	955	742	59	—	1 353	9	9	1 108	36	2	2	2	282
Construction trades, n.e.c.	36	62	43	—	900	22	—	—	477	5	—	—	25
Extrusive occupations	7	—	2	—	186	17	—	—	52	—	—	—	8
Supervisors, extractive occupations	4	—	—	—	109	—	—	—	—	—	—	—	7
Drillers, oil well	4	38	13	—	150	—	—	—	89	—	—	—	2
Explosives workers	10	14	21	—	199	—	—	—	180	—	—	—	7
Mining machine operators	6	—	—	—	256	5	—	—	139	—	—	—	8
Mining occupations, n.e.c.	9	10	7	—	—	—	—	—	—	—	—	—	—
Precision production occupations	35 750	27 682	1 911	123	192 226	26 786	10 359	88 494	9 880	629	3 903	1 035	7 442
Supervisors, production occupations	12 885	8 046	1 025	90	122 460	12 729	5 413	59 330	7 171	507	2 178	322	6 497
Precision metalworking occupations	15	486	161	—	19 304	1 409	1 064	16 286	2 207	25	90	5	475
Tool and die makers	25	—	—	—	1 066	30	25	877	85	—	7	—	69
Precision assemblers, metal	—	—	—	—	177	22	15	157	29	5	—	—	—
Machinists	419	448	97	—	9 642	364	226	7 583	2 000	20	56	5	252
Boilermakers	29	12	56	—	357	—	—	220	9	—	—	—	6
Precision grinders, filers, and tool sharpeners	—	5	—	—	246	14	6	213	5	—	—	—	96
Pattenmakers and model makers, metal	—	—	—	—	215	109	35	122	3	—	—	—	14
Lay-out workers	—	—	6	—	172	32	13	122	—	—	—	—	—
Precious stones and metals workers (jewelers)	16	16	—	—	2 717	610	586	2 627	7	—	10	—	5
Engravers, metal	6	5	2	—	407	166	96	257	69	—	17	—	26
Sheet metal workers	—	—	—	—	4 274	62	—	4 089	—	—	—	—	—
Miscellaneous precision metal workers	—	6	—	—	31	—	—	19	—	—	—	—	—
Precision woodworking occupations	7	6	—	—	1 141	124	104	971	11	—	644	72	116
Pattenmakers and model makers, wood	7	—	—	—	57	14	4	49	4	—	4	4	2
Cabinet makers and bench carpenters	—	6	—	—	607	34	19	528	3	—	335	19	81
Furniture and wood finishers	—	—	—	—	439	76	71	369	5	—	297	49	15
Miscellaneous precision woodworkers	—	—	—	—	38	—	—	25	3	—	8	—	6
Precision textile, apparel, and furnishings machine workers	60	262	10	—	6 232	4 557	1 214	1 880	127	63	924	629	11
Dressmakers	41	221	8	—	4 575	4 138	1 101	55	55	55	656	600	—
Tailors	6	—	—	—	348	134	22	48	—	—	7	—	—
Upholsterers	5	—	—	—	685	41	18	469	50	—	237	12	—
Shoe repairers	2	17	2	—	272	73	32	90	6	8	7	7	—
Apparel and fabric patternmakers	6	24	15	—	171	102	40	40	16	—	17	10	—
Miscellaneous precision apparel and fabric workers	39	94	—	—	181	69	23	38	—	—	—	—	—
Precision workers, assorted materials	—	36	—	—	6 720	2 300	2 101	6 155	135	13	40	7	228
Hand molders and shapers, except jewelers	—	7	—	—	306	26	21	296	7	—	19	—	185
Pattenmakers, lay-out workers, and cutters	—	8	—	—	97	25	11	53	—	—	—	—	—
Optical goods workers	11	—	—	—	3 932	1 188	1 186	3 866	14	—	—	—	17
Dental laboratory and medical appliance technicians	7	—	—	—	221	34	29	201	6	—	—	—	—
Bookbinders	—	—	—	—	231	163	42	89	—	—	—	—	—
Electrical and electronic equipment assemblers	21	43	—	—	1 231	818	777	1 142	24	3	7	7	13
Miscellaneous precision workers, n.e.c.	—	—	—	—	702	46	35	528	84	10	14	—	13
Precision food production occupations	34	11	—	—	30 130	5 175	80	543	12	6	3	—	38
Butchers and meat cutters	28	7	—	—	24 784	3 594	53	438	6	—	3	—	38
Bakers	6	—	—	—	4 535	1 223	27	89	6	—	—	—	—
Food batchmakers	—	—	—	—	811	358	16	16	—	—	—	—	—
Precision inspectors, testers, and related workers	82	51	—	—	1 135	319	289	1 005	138	15	—	—	12
Inspectors, testers, and graders	10	45	2	—	1 105	319	289	975	138	—	—	—	7
Adjusters and calibrators	—	6	—	—	30	—	—	30	—	—	—	—	—

d Persons by Detailed Industry and Sex: 1980—Con.

as based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Sanitary services		Not specified utilities		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
supply and irrigation												
2 148	413	646	664	31	5 104	173	2 324	94	79	—	65	—
3 412	332	444	72	4	44	—	12	—	6	—	2	—
2 407	151	104	104	6	34	—	34	—	7	—	30	—
5 862	161	87	400	15	3 435	141	2 045	94	73	—	33	—
27 607	700	108	88	6	1 342	21	213	—	—	—	48 988	1 799
6 692	309	3 009	4 028	347	950 360	135 979	361 716	43 109	50 628	7 961	2 390	2 390
4 536	189	247	1 769	188	190 545	61 231	95 268	20 340	10 384	2 079	1 218	934
95	11	118	1 230	168	107 151	28 256	51 148	9 612	5 212	1 042	770	531
6	—	—	7	6	6 319	842	5 027	52	592	79	9	25
—	—	—	—	—	118	—	113	—	12	—	—	—
—	—	—	—	—	985	82	883	70	143	—	30	9
—	—	—	—	—	240	—	179	—	6	—	30	—
36	7	—	—	—	968	243	739	16	14	7	27	9
—	—	—	—	—	67	6	57	—	6	—	6	—
30	2	—	6	6	437	82	397	—	—	—	—	—
16	—	—	—	—	2 976	388	2 235	304	252	22	183	7
7	4	—	—	—	164	7	135	7	6	—	6	—
—	—	—	—	—	17	—	13	—	—	—	—	—
—	—	—	—	—	327	16	274	—	2	2	10	—
2	—	—	5	—	460	81	393	55	27	—	16	—
56	23	—	12	—	2 841	660	2 054	416	30	15	103	—
52	23	—	12	—	2 137	566	1 490	368	23	15	82	—
2	—	—	—	—	381	80	295	39	7	—	2	—
—	—	—	—	—	141	12	115	7	—	—	—	—
2	—	—	—	—	182	2	154	2	—	—	19	—
14	—	—	—	—	3 303	194	2 820	119	28	—	1 649	64
8	—	—	—	—	2 358	95	2 041	47	8	—	36	—
—	—	—	—	—	158	37	118	10	58	—	1 286	31
—	—	—	—	—	101	15	95	15	9	—	57	7
6	—	—	—	—	622	47	512	47	11	—	81	15
37	9	—	8	—	3 807	1 251	1 489	504	149	54	209	11
37	9	—	—	—	3 075	867	1 190	349	58	27	4	9
—	—	—	—	—	161	73	72	24	33	11	56	9
—	—	—	8	—	363	222	173	101	16	10	—	—
—	—	—	—	—	208	89	54	30	9	—	—	—
17	2	7	2	—	4 651	3 115	1 244	603	359	242	—	21
—	—	—	—	—	282	158	174	16	7	5	10	—
—	—	—	—	—	181	96	25	11	—	—	—	—
—	—	—	—	—	133	33	32	14	11	5	—	—
10	2	7	—	—	2 699	2 147	576	358	247	202	100	6
—	—	—	—	—	163	74	40	19	12	12	4	15
7	—	—	—	—	381	178	111	27	—	—	15	—
—	—	—	—	—	225	116	111	44	38	12	7	—
—	—	—	2	—	587	291	225	117	28	9	13	—
4 315	144	111	1 196	162	85 770	22 113	38 211	7 304	1 569	476	5 628	412
61	18	—	—	—	371	226	176	94	18	10	10	10
34	3	1	—	—	4 676	1 965	782	265	25	19	32	—
13	—	—	2	—	379	46	146	24	5	5	26	—
36	—	—	—	—	4 048	398	578	114	19	8	142	—
676	15	—	26	—	1 767	172	207	49	2	2	34	—
4	—	—	12	—	1 598	331	910	91	40	5	13	11
76	—	—	8	—	2 634	231	1 969	102	91	12	454	2
—	—	—	—	—	268	4	67	13	—	—	8	—
8	—	7	—	—	237	142	61	—	—	—	12	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Operators, fabricators, and laborers—Con.												
Machine operators, assemblers, and inspectors—Con.												
Machine operators and tenders, except precision—Con.												
Machine operators, assorted materials—Con.												
Folding machine operators	25	—	—	—	140	—	727	305	2	12	24	17
Fur, knive, and oven operators, except food	153	—	324	—	—	—	2 133	180	35	120	204	17
Crushing and grinding machine operators	13	—	25	—	—	—	2 583	175	24	44	51	7
Slicing and cutting machine operators	27	—	52	—	—	—	10 986	2 471	151	851	1 293	56
Motion picture projectionists	—	—	—	—	—	—	27	9	—	—	—	—
Photographic process machine operators	11	5	13	13	6	—	1 021	475	16	325	30	21
Miscellaneous machine operators, n.e.c.	809	63	137	48	137	48	4 952	1 758	1 543	192	1 543	60
Machine operators, not specified	2 369	61	2 118	44	854	132	35 016	10 031	1 603	3 442	2 340	228
Fabricators, assemblers, and hand working occupations												
Welders and cutters	1 119	82	1 488	35	319	20	48 201	12 856	4 269	8 182	2 272	253
Solders and brazers	797	5	1 110	11	262	—	18 636	520	1 437	440	666	8
Assemblers	7	7	—	—	—	—	417	10	10	251	—	—
Hand cutting and trimming occupations	292	70	357	24	57	20	26 686	11 267	2 741	7 227	1 534	239
Hand molding, casting, and forming occupations	—	—	4	—	—	—	1 054	335	16	35	5	—
Hand painting, coating, and decorating occupations	11	—	2	—	—	—	313	80	173	11	19	—
Hand engraving and printing occupations	12	—	15	—	—	—	448	138	242	106	23	6
Hand grinding and polishing occupations	—	—	—	—	—	—	39	14	—	—	8	—
Miscellaneous hand working occupations	—	—	—	—	—	—	110	18	—	—	5	—
Production inspectors, testers, samplers, and weighers												
Production inspectors, checkers, and examiners	1 037	38	1 563	94	220	—	35 193	20 119	903	2 545	961	150
Production testers	945	16	1 437	83	190	—	9 837	3 754	4 011	1 443	404	91
Production samplers and weighers	23	—	37	11	17	—	532	161	359	117	10	6
Graders and sorters, except agricultural	25	—	62	—	5	—	506	290	94	44	—	—
Graders and sorters, except agricultural	44	22	27	—	8	—	24 318	15 914	2 885	941	467	53
Transportation and material moving occupations												
Motor vehicle operators	9 125	148	50 034	519	958	23	447 732	11 085	141 786	5 018	5 895	232
Supervisors, motor vehicle operators	3 681	83	43 896	472	488	6	386 227	8 885	110 494	3 842	5 069	179
Truck drivers, heavy	53	—	561	—	—	—	4 489	97	505	37	25	16
Truck drivers, light	3 047	59	39 976	421	418	6	186 798	2 519	62 849	952	2 269	106
Driver-sales workers	316	12	817	8	44	—	122 991	3 904	37 240	1 859	7 754	73
Bus drivers	42	—	97	—	—	—	65 575	1 669	6 493	410	1 088	—
Taxicab drivers and chauffeurs	27	12	9	—	13	—	5 430	59	188	25	32	—
Parking lot attendants	150	—	791	21	12	—	5 642	596	3 065	518	546	15
Motor transportation occupations, n.e.c.	18	—	50	14	—	—	265	30	123	30	16	—
Rail transportation occupations												
Railroad conductors and yardmasters	19	—	26	—	16	—	37	11	15	—	—	—
Locomotive operating occupations	19	—	5	—	—	—	282	13	30	—	—	—
Railroad brake, signal, and switch operators	—	—	21	—	—	—	151	6	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	93	—	—	—	—	—
Water transportation occupations												
Ship captains and mates, except fishing boats	198	8	61	—	3	—	954	36	210	15	40	—
Sailors and deckhands	32	—	30	—	—	—	405	2	139	2	—	—
Marine engineers	26	—	8	—	3	—	430	28	50	7	10	—
Bridge, lock, and lighthouse tenders	131	8	23	—	—	—	101	3	—	—	—	—
Material moving equipment operators												
Supervisors, material moving equipment operators	5 227	57	6 051	47	451	17	60 269	2 151	3 232	1 161	826	53
Operating equipment operators	8	—	35	—	27	—	2 816	240	2 035	212	56	—
Operating equipment operators	861	—	1 539	5	102	—	878	14	660	37	171	—
Heist and winch operators	—	—	—	—	—	—	221	45	—	—	—	—
Conveyor and loading machine operators	5	—	258	19	—	—	7 857	112	9	—	—	—
Gantry, dumper, and crane operators	214	—	414	—	50	—	843	29	31	—	—	—
Industrial truck and tractor equipment operators	1 658	5	552	137	137	12	7 857	112	9	—	—	—
Miscellaneous material moving equipment operators	322	6	1 024	7	20	5	41 186	899	16 377	367	49	32
	1 971	26	726	12	106	—	6 043	849	3 221	445	721	17

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

United States															
Transportation, communications, and other public utilities—Con.						Wholesale trade, durable goods									
Utilities and sanitary services—Con.						Wholesale trade, total									
Water supply and irrigation		Sanitary services		Not specified utilities		Total		Motor vehicles and equipment		Furniture and home furnishings		Lumber and construction materials			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
11 790	243	81 130	2 243	1 301	136	312 083	63 663	124 662	17 751	20 532	3 694	5 688	1 030	13 204	633
48	—	300	—	18	—	365	30	140	16	19	—	7	—	30	8
48	2	152	6	27	—	1 077	42	818	34	99	4	—	—	26	5
297	2	114	13	13	—	72 970	41	1 96	32	16	3	70	—	107	2
229	—	108	—	7	—	1 336	41	1 184	32	16	3	70	—	107	2
48	2	6	—	6	—	1 319	—	12	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 993	18	778	3	265	—	1 825	108	1 112	70	48	—	23	—	400	24
227	4	269	—	45	7	3 716	437	2 057	116	513	18	37	115	114	1
595	33	56 473	1 309	104	—	72 970	5 449	21 401	1 589	3 281	327	1 154	95	4 211	134
495	7	55 260	1 274	48	—	264	8	170	—	—	—	—	—	18	—
—	—	32	—	—	—	264	6	78	—	10	—	14	—	23	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	16	110	9	19	—	19 384	3 434	6 720	1 041	1 785	281	205	46	400	11
10	5	85	6	—	—	1 966	730	461	86	14	9	9	4	105	17
59	5	986	20	37	—	51 092	1 271	13 972	462	1 472	46	926	45	3 665	106
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
57	—	588	6	39	—	4 372	222	2 741	40	2 129	34	14	—	30	9
111	3	479	24	—	—	3 321	356	1 548	142	702	69	18	2	37	108
54	3	177	47	13	7	50 098	28 926	13 956	6 793	2 668	1 321	897	411	427	307
8 345	178	21 799	848	777	122	173 003	28 052	79 693	8 919	11 057	1 918	2 476	307	7 822	342
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Handlers, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.															
Helpers, mechanics and repairers															
Helpers, construction and extractive occupations															
Helpers, construction trades															
Helpers, service															
Helpers, extractive occupations															
Construction laborers															
Production helpers															
Freight, stock, and material handlers															
Garbage collectors															
Sewers															
Stock handlers and baggers															
Machine feeders and officers															
Freight, stock, and material handlers, n.e.c.															
Garage and service station related occupations															
Vehicle washers and equipment cleaners															
Hand packers and packagers															
Laborers, except construction															

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Cen.	
Hearers, equipment cleaners, helpers, and laborers	
Supervisors, handlers, equipment cleaners, and laborers,	
Helpers, mechanics and repairers	
Helpers, construction and extractive occupations	
Helpers, construction trades	
Helpers, surveyor	
Helpers, extractive occupations	
Construction laborers	
Production helpers	
Freight, stock, and material handlers	
Garbage collectors	
Stevedores	
Stock handlers and loaders	
Mobile heaters and dryers	
Freight, stock, and material handlers, n.e.c.	
Garage and service station related occupations	
Vehicle washers and equipment cleaners	
Road packers and packagers	
Laborers, except construction	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

United States

	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	48 003	17 612	107 278	23 690	245 894	75 167	234 967	55 397	1 801	837 220	218 070	115 210	15 896	
Managerial and professional specialty occupations	9 399	1 913	19 330	2 805	51 967	8 853	37 135	5 803	369	158 339	28 689	15 938	1 700	
Executive, administrative, and managerial occupations	8 598	1 698	18 310	2 684	45 570	8 116	35 358	5 422	340	133 331	24 133	15 394	1 624	
Legislators, chief executives, and general administrators; public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	
Administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	
Federal	-	-	-	-	-	-	-	-	-	-	-	-	-	
State	-	-	-	-	-	-	-	-	-	-	-	-	-	
Local	-	-	-	-	-	-	-	-	-	-	-	-	-	
Administrators, protective services	-	-	-	-	-	-	-	-	-	-	-	-	-	
Financial managers	485	132	1 102	283	2 560	736	1 456	439	-	5 965	1 434	299	48	
Financial managers	148	60	205	61	616	177	502	122	-	2 556	743	267	21	
Personnel and labor relations managers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Managers, marketing, advertising, and public relations	84	29	258	25	556	73	432	40	-	1 224	255	35	63	
Administrators, education and related fields	1 701	171	3 157	185	10 057	673	5 308	235	100	30 085	1 847	760	23	
Managers, medicine and health	-	-	-	-	-	-	-	-	-	-	-	-	-	
Managers, properties and real estate	-	-	-	-	-	-	-	-	-	-	-	-	-	
Managers, food and mail superintendents	-	-	-	-	-	-	-	-	-	-	-	-	-	
Postmasters	-	-	-	-	-	-	-	-	-	-	-	-	-	
Funeral directors	4 903	874	9 897	1 238	23 718	3 746	21 316	2 916	174	73 270	12 583	10 627	1 081	
Managers and administrators, n.e.c.	4 604	795	9 592	1 178	22 905	3 613	19 830	2 657	21	69 400	11 978	8 516	884	
Managers	299	79	305	60	813	133	1 486	259	5	3 870	605	2 111	197	
Self-employed	1 270	432	3 664	881	7 986	2 697	6 285	1 664	15	20 025	7 095	3 383	411	
Management related occupations	413	160	1 417	466	2 409	977	1 496	671	17	8 241	3 425	611	190	
Accountants and auditors	-	-	-	-	-	-	-	-	-	-	-	-	-	
Underwriters	26	12	128	42	220	77	129	26	-	645	155	32	6	
Other financial officers	27	58	338	40	615	223	424	85	-	2 239	717	325	32	
Management analysts	147	58	338	40	615	223	424	85	11	2 239	717	325	32	
Personnel, training, and labor relations specialists	-	-	-	-	-	-	-	-	31	7 756	2 432	2 364	183	
Purchasing agents and buyers, farm products	619	187	1 712	333	4 350	1 309	4 057	848	-	-	-	-	-	
Buyers, wholesale and retail trade except farm products	-	-	-	-	-	-	-	-	-	-	-	-	-	
Purchasing agents and buyers, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Business and promotion agents	5	-	-	-	-	-	-	-	7	24	-	-	-	
Business and promotion agents	8	-	-	-	-	-	-	-	-	16	-	-	-	
Construction inspectors	25	-	-	-	-	-	-	-	-	68	33	19	-	
Inspectors and compliance officers, except construction	-	-	-	-	-	-	-	-	-	117	-	-	-	
Management related occupations, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-	-	
Professional specialty occupations	801	215	1 020	121	5 497	737	1 777	381	29	25 008	4 566	544	76	
Engineers, architects, and surveyors	119	8	573	23	3 295	119	869	36	18	10 898	584	245	18	
Architects	-	-	-	-	-	-	-	-	-	-	-	-	-	
Engineers	119	8	561	23	3 283	113	845	36	18	10 808	561	238	18	
Aerospace engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metalurgical and materials engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mining engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chemical engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nuclear engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Civil engineers	7	-	61	6	45	-	24	-	-	26	185	7	15	
Agricultural engineers	-	-	-	-	-	-	-	-	-	-	-	-	-	
Electrical and electronic engineers	28	-	31	-	1 629	13	46	-	-	2 270	82	57	-	
Industrial engineers	21	-	72	2	278	54	121	9	11	945	43	66	-	
Mechanical engineers	19	-	35	-	178	7	358	-	-	1 389	223	66	-	
Marine engineers and naval architects	-	-	-	-	-	-	-	-	-	-	-	-	-	
Engineers, n.e.c.	44	8	214	8	1 091	39	280	15	2	5 581	-	-	3	
Surveyors and mapping scientists	-	-	6	-	-	-	-	-	-	-	-	-	-	
Mathematical and computer scientists	128	23	84	14	596	131	134	32	-	6 786	1 473	51	13	
Computer systems analysts and scientists	108	23	48	14	390	68	114	32	-	5 989	1 259	41	13	
Operations and systems researchers and analysts	13	-	36	-	161	42	20	-	-	676	173	10	-	
Actuaries	-	-	-	-	6	6	6	-	-	107	41	-	-	
Statisticians	7	-	-	-	33	15	-	-	-	14	-	-	-	
Mathematical scientists, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A.]

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A]

United States

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations	27 704	12 541	44 402	19 049	144 087	57 905	114 992	44 641	969	405	433 819	169 354	27 913	10 814
Technicians and related support occupations	662	159	1 018	233	5 729	764	1 582	231	22	—	18 265	2 898	352	60
Health technologists and technicians	5	—	—	—	30	12	9	—	—	—	81	11	—	—
Dental hygienists	—	—	—	—	6	—	—	—	—	—	—	—	—	—
Clinical laboratory technologists and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	5	—	—	—	—	—	—	—	—	—	—	—	—	—
Radiologic technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	—	—	—	—	—	—	7	—	—	—	30	7	—	—
Health technologists and technicians, n.e.c.	—	—	—	—	18	6	2	—	—	—	283	105	—	—
Engineering and related technologists and technicians	271	32	543	88	3 590	346	725	71	14	—	7 663	942	192	15
Electrical and electronic technicians	210	6	47	10	2 979	255	82	11	9	—	4 688	281	20	—
Industrial engineering technicians	—	—	10	10	12	—	17	—	—	—	74	—	6	—
Mechanical engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering technicians, n.e.c.	33	13	145	20	232	46	335	40	—	—	1 202	433	85	2
Drafting occupations	28	13	334	48	339	37	281	20	5	—	1 741	209	81	13
Surveying and mapping technicians	—	—	7	—	14	8	6	—	—	—	8	—	—	—
Science technicians	35	15	37	7	137	45	55	13	—	—	422	95	20	—
Biological technicians	—	—	—	—	27	12	—	—	—	—	26	—	—	—
Chemical technicians	—	—	19	7	2	—	26	—	—	—	109	—	10	—
Science technicians, n.e.c.	35	15	18	7	108	33	29	13	—	—	287	89	10	—
Technicians, except health, engineering, and science	351	107	438	138	1 972	361	793	147	8	—	9 738	1 736	140	45
Airplane pilots and navigators	5	—	41	—	42	15	21	—	—	—	302	6	18	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	23	62	281	123	186	14	27	19	—	—	82	3	—	—
Computer programmers	141	—	—	—	667	273	384	109	8	—	4 725	1 285	70	25
Tool programmers, numerical control	—	—	—	—	7	—	14	7	—	—	182	45	15	9
Legal assistants	—	—	4	4	38	33	—	—	—	—	4 399	313	37	11
Technicians, n.e.c.	182	45	112	11	1 032	26	347	12	—	—	—	—	—	—
Sales occupations	12 816	2 296	20 015	2 162	72 892	10 122	57 879	4 697	477	37	230 724	26 240	14 484	1 331
Supervisors and proprietors, sales occupations	1 442	206	1 513	83	8 209	779	9 080	456	54	—	31 962	2 103	7 192	317
Sales representatives, sales occupations	1 063	132	1 296	73	6 887	601	6 713	284	32	—	26 865	1 625	2 165	103
Sales representatives, finance and business services	379	74	217	10	1 322	128	2 367	172	22	—	5 097	89	5 027	214
Sales representatives, insurance and business services	39	11	22	—	198	73	134	46	—	—	266	89	38	—
Sales representatives, insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, real estate sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, advertising and related sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	10 855	1 774	17 898	1 905	59 109	7 945	45 977	3 202	375	37	177 399	20 491	5 178	539
Sales engineers	56	—	294	—	2 255	37	1 161	—	21	—	5 004	99	23	—
Sales representatives, mining, manufacturing, and wholesale	10 799	1 774	17 604	1 905	56 854	7 908	44 816	3 202	354	37	172 395	20 392	5 155	539
Sales workers, retail and personal services	460	290	582	174	3 227	1 268	2 658	978	48	—	20 768	3 434	2 074	475
Sales workers, commodities	49	—	69	10	3 353	406	969	109	39	—	17 392	1 656	1 499	98
Sales counter clerks	12	—	14	—	36	36	325	5	4	—	207	56	12	—
Cashiers	26	209	75	48	476	399	589	501	—	—	1 329	1 126	502	357
Street and door-to-door sales workers	105	63	416	116	1 187	427	766	363	5	—	1 702	566	61	20
News vendors	18	6	8	—	29	—	9	—	—	—	138	30	—	—
Sales related occupations	20	15	—	—	149	107	30	15	—	—	329	123	2	—
Demonstrators, promoters and models, sales	20	15	—	—	149	107	19	15	—	—	253	120	2	—
Auctioneers	—	—	—	—	—	—	—	—	—	—	19	3	—	—
Sales support occupations, n.e.c.	—	—	—	—	—	—	11	—	—	—	57	—	—	—
Administrative support occupations, including clerical	14 226	10 086	23 369	16 654	65 466	47 019	55 531	39 713	470	368	184 830	140 216	13 077	9 423
Supervisors, administrative support occupations	1 005	500	1 441	441	3 677	1 830	2 506	1 042	18	11	9 651	4 390	466	149
Supervisors, general office	1 005	500	1 441	441	3 677	1 830	2 506	1 042	18	11	9 651	4 390	466	149
Supervisors, computer equipment operators	51	42	30	12	118	51	82	48	—	—	5 244	2 863	259	116
Supervisors, financial records processing	223	129	375	126	841	528	457	245	—	—	1 969	1 097	74	18
Chief communications operators	—	—	—	—	731	14	500	74	—	—	1 422	212	—	—
Supervisors, distribution, scheduling, and adjusting clerks	254	52	391	6	841	71	500	74	—	—	1 422	212	—	—
Computer equipment operators	388	519	781	599	2 362	1 875	1 523	1 172	7	7	6 945	4 893	116	4
Computer equipment operators	514	383	753	577	2 311	1 875	1 523	1 172	7	7	6 945	4 893	116	4
Peripheral equipment operators	5	—	28	20	51	27	2	—	—	—	237	162	19	11

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.											
Sporting goods, toys, and hobby goods			Metals and minerals, except petroleum			Electrical goods			Hardware, plumbing and heating supplies		
Total	Female		Total	Female		Total	Female		Total	Female	
2 926	2 897		6 522	6 385		15 331	15 200		13 610	13 428	
2 600	2 579		5 693	5 582		13 647	13 534		12 341	12 173	
16	16		96	96		94	94		14	14	
310	302		733	707		1 572	1 572		1 179	1 179	
383	375		856	791		2 181	1 790		1 799	1 608	
106	104		89	83		320	224		145	119	
12	12		7	2		20	11		27	10	
236	236		654	639		1 293	1 298		1 290	1 269	
29	23		106	67		518	257		337	210	
1 096	719		1 395	831		4 178	2 691		3 370	1 492	
6	6		2	2		39	34		29	29	
34	28		50	33		32	32		38	26	
834	495		859	376		2 994	1 600		2 549	764	
10	10		39	39		46	46		2	2	
171	151		396	362		7	7		41	11	
41	29		43	13		930	879		626	591	
2 791	2 480		4 239	3 780		13 029	11 813		126	80	
2 306	2 066		3 258	2 968		10 544	9 746		14 662	13 039	
137	129		163	148		276	272		111	107	
235	211		582	507		1 334	1 219		180	174	
70	64		201	130		663	376		1 022	835	
23	10		35	27		212	200		813	452	
27	17		51	15		57	53		45	45	
—	—		33	9		9	9		45	45	
—	—		18	9		13	9		45	45	
64	64		306	278		658	616		274	259	
64	64		294	278		630	594		268	253	
—	—		12	—		7	15		6	6	
112	62		178	64		486	204		473	220	
—	—		105	58		406	191		353	194	
93	57		73	6		80	13		120	26	
19	5		—	—		13 702	3 858		2 034	2 034	
3 248	961		4 418	1 118		3 760	214		396	396	
78	71		266	18		360	181		278	123	
117	57		371	146		431	181		481	466	
1 756	353		1 089	189		6 371	1 785		4 481	4 301	
1 053	324		1 711	678		5 131	1 785		4 301	4 301	
—	—		—	—		175	55		297	38	
82	49		177	14		35	15		42	17	
—	—		222	73		1 118	806		420	190	
100	62		—	—		181	81		—	—	
62	45		12	—		1 646	870		620	346	
430	307		261	169		—	—		—	—	
286	182		210	130		1 265	598		390	221	
144	125		51	39		375	266		230	125	
1 625	1 316		2 822	2 183		8 159	6 589		6 373	5 028	
1 187	982		1 734	1 340		5 223	4 134		4 752	3 646	
—	—		—	—		—	—		—	—	
15	9		10	10		18	18		1	1	
278	278		671	633		1 935	1 813		1 227	1 176	
22	18		113	64		255	181		99	70	
—	—		294	136		749	419		295	136	
116	29		—	—		—	—		—	—	

Employed persons 16 years and over—Con.

Technical sales, and administrative support occupations—Con.

Administrative support occupations, including clerical—Con.

Secretaries, stenographers, and typists—

Stenographers—

Typists—

Information clerks—

Interviewers—

Total clerks—

Transportation ticket and reservation agents—

Receptionists—

Information clerks, n.e.c.—

Records processing occupations, except financial—

Classified-ad clerks—

Correspondence clerks—

Order clerks—

Personnel clerks, except payroll and timekeeping—

Library clerks—

Records clerks—

Financial records processing occupations—

Bookkeepers, accounting, and auditing clerks—

Buyer and timekeeping clerks—

Billing clerks—

Cost and rate clerks—

Clerks, posting, and calculating machine operators—

Duplicating, mail, and other office machine operators—

Multiplying machine operators—

Mail preparing and paper handling machine operators—

Office machine operators, n.e.c.—

Communications equipment operators—

Telephone operators—

Telegraphers—

Communications equipment operators, n.e.c.—

Mail and message distributing occupations—

Postal clerks, except mail carriers—

Mail carriers, postal service—

Mail clerks, except postal service—

Messengers—

Material recording, scheduling, and distributing clerks—

Dispatchers—

Production coordinators—

Traffic, shipping, and receiving clerks—

Stock and inventory clerks—

Meter readers—

Weighers, measurers, and checkers—

Samplers—

Expeditors—

Material recording, scheduling, and distributing clerks, n.e.c.—

Adjusters and investigators—

Insurance adjusters, examiners, and investigators—

Investigators and adjusters, except insurance—

Eligibility clerks, social welfare—

Bill and account collectors—

Miscellaneous administrative support occupations—

General office clerks—

Bank tellers—

Proofreaders—

Stenographers—

Specialty clerks—

Teachers' aides—

Administrative support occupations, n.e.c.—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Wholesale trade, durable goods—Con.														
	Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	531	133	1 458	322	2 089	586	1 880	477	33	10	8 967	2 174	2 115	253
Private household occupations	78	20	234	5	362	39	128	2	—	—	1 017	72	548	36
Protective service occupations	23	—	5	—	27	7	8	—	—	—	38	—	6	—
Supervisors, protective service occupations	8	—	—	—	7	—	—	—	—	—	8	—	—	—
Supervisors, firefighting and fire prevention occupations	15	—	5	—	20	—	8	—	—	—	30	—	6	—
Supervisors, police and detectives	6	—	—	—	—	—	—	—	—	—	150	—	5	—
Supervisors, guards	6	—	—	—	—	—	—	—	—	—	48	—	5	—
Firefighting and fire prevention occupations	6	—	—	—	—	—	—	—	—	—	102	—	—	—
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Freighting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	49	20	229	5	335	32	120	2	—	—	829	72	537	36
Guards	43	14	229	5	335	32	120	2	—	—	811	72	532	36
Crossing guards	6	6	—	—	—	—	—	—	—	—	11	—	5	—
Guards and police, except public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	453	113	1 224	317	1 727	547	1 752	475	33	10	7 950	2 102	1 567	217
Service occupations, except protective and household food preparation and service occupations	59	51	45	37	111	31	141	36	10	5	668	479	32	13
Supervisors, food preparation and service occupations	—	—	—	—	6	—	—	—	—	—	72	60	6	6
Bartenders	7	7	21	21	12	5	28	2	—	—	67	37	—	—
Waiters and waitresses	15	15	10	10	7	7	4	4	—	—	237	164	26	7
Cooks, except short order	—	—	—	—	6	—	—	—	—	—	—	—	—	—
Short-order cooks	—	—	8	—	55	—	85	16	10	5	60	23	—	—
Food counter, fountain and related occupations	—	—	—	—	—	—	—	—	—	—	88	78	—	—
Kitchen workers, food preparation	—	—	—	—	—	—	4	—	—	—	35	35	—	—
Waiters and waitresses' assistants	37	29	6	6	25	19	18	14	—	—	109	82	—	—
Miscellaneous food preparation occupations	—	—	6	—	8	—	20	20	—	—	48	24	—	—
Health service occupations	—	—	—	—	—	—	—	—	—	—	5	5	—	—
Dental assistants	—	—	—	—	3	—	4	4	—	—	23	12	—	—
Health aides, except nursing	—	—	6	—	5	—	16	16	—	—	20	7	—	—
Nursing aides, orderlies, and attendants	367	50	1 149	256	1 500	421	1 537	401	23	5	6 693	1 216	1 491	193
Cleaning and building service occupations, except household	27	13	44	45	48	7	28	401	—	—	148	41	41	—
Supervisors, cleaning and building service workers	317	37	980	211	1 224	301	1 633	45	23	5	404	134	147	40
Maid and houseman	23	—	8	—	48	—	22	356	—	—	5 871	1 005	1 303	153
Janitors and cleaners	—	—	—	—	—	—	—	—	—	—	270	36	—	—
Elevator operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations	27	12	24	24	108	95	54	18	—	—	541	383	44	11
Supervisors, personal service occupations	—	—	—	—	—	—	14	6	—	—	150	84	15	—
Barbers	—	—	5	5	—	—	6	—	—	—	101	78	5	—
Hairdressers and cosmetologists	12	5	—	—	—	—	6	—	—	—	34	14	7	—
Attendants, amusement and recreation facilities	—	—	—	—	—	—	—	—	—	—	2	—	—	—
Guides	—	—	—	—	3	3	—	—	—	—	—	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wellness service aides	—	—	—	—	15	15	5	—	—	—	45	30	11	—
Child care workers, except private household	15	7	19	19	90	77	23	12	—	—	202	177	—	—
Personal service occupations, n.e.c.	19	6	48	6	72	24	68	22	—	—	388	27	94	11
Farming, forestry, and fishing occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	11	6	26	—	42	22	46	6	—	—	11	15	11	—
Related agricultural occupations	—	—	—	—	—	—	—	—	—	—	298	15	46	—
Supervisors, related agricultural occupations	5	—	26	—	34	—	40	6	—	—	4	10	37	4
Groundskeepers and gardeners, except farm	6	6	—	—	8	—	6	—	—	—	16	5	9	7
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	6	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.													
Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Farming, forestry, and fishing occupations—Con.													
Forestry and logging occupations													
6	—	22	6	2	2	22	16	—	—	57	1	37	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	22	6	—	—	—	16	—	—	27	—	25	—
6	—	—	—	2	2	—	—	—	—	30	1	12	—
2	—	—	—	6	—	—	—	—	—	22	—	—	—
—	—	—	—	—	—	—	—	—	—	16	—	—	—
2	—	—	—	—	—	—	—	—	—	6	—	—	—
3 185	627	11 025	311	21 619	2 137	49 436	997	184	10	148 244	6 245	17 268	327
1 449	89	2 260	47	9 263	478	23 130	226	77	—	113 229	1 976	10 401	103
22	—	204	4	340	13	318	18	—	—	3 629	41	353	—
1 427	89	2 056	43	8 923	465	22 812	208	70	—	109 600	1 935	10 048	103
107	—	432	8	578	5	1 086	—	17	—	51 011	323	5 125	10
40	—	224	8	375	5	578	—	17	—	5 961	24	4 046	10
36	—	58	8	49	—	81	—	—	—	7 708	21	248	—
—	—	16	—	35	—	24	—	—	—	718	26	—	—
15	—	7	—	11	—	39	—	—	—	895	9	15	—
—	—	3	—	14	—	42	—	—	—	219	6	288	—
7	—	104	—	71	—	260	—	—	—	10 571	19	446	—
9	—	20	—	23	—	62	—	—	—	24 912	218	80	—
192	2	581	—	497	18	586	6	10	—	11 299	150	530	18
145	34	98	17	5 800	276	1 535	28	26	—	9 517	499	73	8
63	—	17	5	2 604	91	92	—	21	—	1 315	63	8	—
28	17	33	7	322	52	29	—	5	—	6 560	389	8	—
8	—	14	—	1 538	57	1 227	7	—	—	829	6	16	—
7	—	9	—	12	—	9	—	—	—	38	13	—	—
34	10	10	5	524	48	139	—	—	—	341	—	14	—
25	—	15	—	800	28	39	—	—	—	434	28	27	—
—	—	61	—	282	—	17 886	132	3	—	538	2	49	—
949	53	837	18	1 740	166	1 705	42	14	—	36 913	956	4 180	67
281	9	27	—	33	—	62	—	—	—	157	35	6	—
—	—	—	—	33	6	138	17	—	—	284	6	7	—
82	9	5	—	91	27	29	—	—	—	13 816	427	—	—
—	—	7	—	38	8	22	—	—	—	328	29	8	—
6	—	147	—	26	—	17	—	—	—	3 205	15	3	—
388	19	332	4	831	43	465	6	7	—	11 815	174	3 353	59
192	16	315	14	605	69	893	19	7	—	6 277	185	764	8
206	31	1 395	39	4 263	218	16 378	168	42	—	5 483	104	617	18
21	6	67	—	250	—	285	16	6	—	322	—	76	—
—	—	—	—	—	—	4	—	—	—	—	—	—	—
—	—	—	—	—	—	15	—	—	—	23	—	9	—
—	—	19	—	170	—	—	—	—	—	16	—	5	—
—	—	—	—	7	—	76	—	—	—	—	—	16	—
21	6	48	—	73	—	190	16	—	—	283	—	136	2
185	25	1 328	39	4 013	218	16 093	152	36	—	5 161	104	541	18
7	7	23	—	2	—	45	2	—	—	59	—	12	—
—	—	—	—	13	—	6	—	—	—	29	—	16	—
61	10	201	—	182	6	298	—	7	—	825	16	136	2
—	—	—	—	19	—	5	—	—	—	2	—	6	—
11	—	13	7	3 302	171	543	7	22	—	1 406	6	181	9
7	—	301	14	93	—	36	—	—	—	53	13	30	—
36	3	121	8	132	19	103	7	—	—	1 250	30	88	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Wholesale trade, durable goods—Con.														
United States	Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Construction trades—Con.														
Construction trades, except supervisors—Con.														
Plasterers	18	5	157	—	118	—	12 351	123	—	—	1 028	7	36	7
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Concrete and terraazzo finishers	—	—	4	—	33	—	41	8	—	—	29	17	—	—
Glaziers	—	—	43	—	—	6	384	—	—	—	98	10	—	—
Insulation workers	—	—	—	—	—	—	—	—	—	—	9	—	—	—
Paving, surfacing, and tamping equipment operators	—	—	—	—	—	—	10	—	—	—	—	—	—	—
Roofers	—	—	202	10	35	10	2 170	—	—	—	10	—	8	—
Sheetmetal duct installers	—	—	209	—	14	6	5	—	—	—	84	—	55	—
Structural metal workers	—	—	3	—	70	—	82	5	7	—	10	—	9	—
Drillers, earth	45	—	29	—	15	—	2	—	2	—	200	—	23	—
Construction trades, n.e.c.	5	—	6	—	—	—	—	—	—	—	181	—	—	—
Extrusive occupations	5	—	—	—	—	—	2	—	—	—	28	—	—	—
Supervisors, extractive occupations	—	—	32	—	—	—	—	—	—	—	15	—	—	—
Drillers, oil well	—	—	114	—	5	—	—	—	—	—	50	—	—	—
Explosives workers	—	—	67	—	10	—	—	—	2	—	48	—	11	—
Mining machine operators	—	—	—	—	—	—	—	—	—	—	40	—	—	—
Mining occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision production occupations	1 525	507	7 151	225	8 078	1 441	9 926	603	63	10	29 351	4 165	6 227	206
Supervisors, production occupations	1 155	285	5 222	171	5 744	68	6 154	506	29	—	17 527	2 109	5 660	160
Precision metalworking occupations	72	13	1 664	24	108	—	3 226	52	14	—	4 655	19	387	16
Tool and die makers	5	—	56	—	—	—	96	6	—	—	440	3	—	—
Precision assemblers, metal	4	—	—	—	—	—	—	—	—	—	113	5	6	—
Machinists	42	—	611	5	494	68	272	6	—	—	3 536	80	246	7
Boilermakers	—	—	31	—	13	—	122	—	7	—	32	—	—	—
Precision grinders, files, and tool sharpeners	2	—	6	—	—	—	21	—	—	—	78	—	2	—
Patternmakers and model makers, metal	—	—	22	5	30	—	7	5	—	—	33	25	13	—
Lay-out workers	—	—	24	—	2	—	12	—	—	—	82	13	2	—
Precious stones and metals workers (jewelers)	11	—	30	—	19	—	6	—	7	—	82	14	6	—
Engravers, metal	4	—	2	—	18	—	13	—	—	—	19	19	—	—
Sheet metal workers	4	—	877	14	78	—	2 677	22	—	—	226	11	109	9
Miscellaneous precision metal workers	—	—	5	—	—	—	—	—	—	—	14	—	—	—
Precision woodworking occupations	—	—	12	2	15	5	15	—	—	—	101	5	22	12
Patternmakers and model makers, wood	—	—	6	—	8	—	2	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	—	—	6	—	2	—	13	—	—	—	68	5	—	—
Furniture and wood finishers	—	—	—	—	5	—	—	—	—	—	26	—	21	—
Miscellaneous precision woodworkers	—	—	—	—	—	—	—	—	—	—	7	—	—	—
Precision textile, apparel, and furnishings machine workers	186	180	—	—	78	24	5	—	—	—	447	229	12	12
Dressmakers	167	167	—	—	24	18	—	—	—	—	203	184	12	12
Tailors	—	—	—	—	45	—	—	—	—	—	41	22	—	—
Upholsterers	12	6	—	—	—	—	—	—	—	—	114	13	—	—
Shoe repairers	—	—	—	—	—	—	—	—	—	—	79	10	—	—
Apparel and fabric patternmakers	7	7	—	—	9	6	5	—	—	—	10	—	—	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision workers, assorted materials	40	6	39	7	846	551	59	7	20	10	4 632	1 436	43	4
Hand makers and shapers, except jewelers	—	—	—	—	13	—	9	—	—	—	42	—	—	—
Patternmakers, lay-out workers, and cutters	13	—	16	7	19	—	8	—	—	—	5	—	—	—
Optical goods workers	6	—	—	—	—	—	5	—	—	—	3 778	1 177	27	4
Dental laboratory and medical appliance technicians	—	—	—	—	—	—	6	—	10	—	176	29	6	—
Bookbinders	6	6	—	—	11	6	—	—	—	—	20	20	—	—
Electrical and electronic equipment assemblers	7	—	—	—	746	545	16	7	10	10	312	185	—	—
Miscellaneous precision workers, n.e.c.	8	—	23	—	57	—	15	—	—	—	299	25	10	—
Precision food production occupations	38	16	57	—	48	12	72	23	—	—	235	10	21	—
Bakers	5	—	51	—	48	12	72	23	—	—	175	10	21	—
Butchers and meat cutters	33	11	6	—	—	—	—	—	—	—	44	10	—	—
Food batchmakers	—	—	—	—	—	—	—	—	—	—	16	—	—	—
Precision inspectors, testers, and related workers	4	—	59	21	266	124	35	15	—	—	455	105	28	2
Inspectors, testers, and graders	4	—	59	21	266	124	35	15	—	—	433	105	28	2
Adjusters and calibrators	—	—	—	—	—	—	—	—	—	—	22	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Mechanical plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

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Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Metalworking and plastic working machine operators

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Forging machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal plating machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Woodworking machine operators

Wood knife, routing, and planing machine operators

Sawing machine operators

Shaping and joining machine operators

Milling and faceting machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Printing machine operators

Photographers and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Winding and twisting machine operators

Knitting, looping, taping, and weaving machine operators

Textile cutting machine operators

Textile sewing machine operators

Shoe machine operators

Pressing machine operators

Laundering and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and galling machine operators

Packaging and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and clarifying machine operators

Compressing and compacting machine operators

Painting and paint spraying machine operators

Boasting and bolting machine operators

Food

Working, cleaning, and picking machine operators ...

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.

United States	Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Operators, fabricators, and laborers—Con.														
Machine operators, assemblers, and inspectors—Con.														
Machine operators, assorted materials—Con.														
Food machine operators	5	—	22	—	11	—	—	—	—	—	18	—	7	—
Pumice, lath, and oven operators, except food	9	—	154	—	50	37	78	—	—	—	195	27	520	23
Printing and grinding machine operators	—	7	53	—	5	—	—	—	—	—	105	37	98	—
Shaping and cutting machine operators	22	—	2 057	21	199	34	168	27	—	—	581	135	1 606	374
Shaping and cutting machine operators	—	—	—	—	—	—	—	—	—	—	5	—	7	—
Motion picture projectionists	221	118	20	—	62	32	23	18	—	—	288	105	834	66
Photographic process machine operators	164	71	1 095	82	358	74	289	74	—	—	1 730	607	2 067	207
Miscellaneous machine operators, n.e.c.	349	161	2 094	147	1 350	480	975	214	34	7	3 988	1 082	—	—
Machine operators, not specified														
Fabricators, assemblers, and hand working occupations	882	567	3 234	247	4 113	2 173	2 019	534	44	31	13 346	2 406	4 281	163
Welders and cutters	74	14	2 509	38	114	81	705	38	—	—	5 962	126	3 650	39
Solderers and brazers	22	22	663	209	109	81	27	22	44	31	7 040	2 126	26	105
Assemblers	712	484	52	—	3 305	1 966	1 190	466	—	—	—	—	552	2
Hand cutting and trimming occupations	13	13	6	—	10	—	—	—	—	—	18	—	16	6
Hand molding, casting, and forming occupations	7	—	15	—	6	—	46	2	—	—	66	25	6	—
Hand painting, coating, and decorating occupations	22	16	6	—	—	—	9	—	—	—	14	7	—	—
Hand engraving and printing occupations	—	—	—	—	—	—	26	—	—	—	4	—	—	—
Hand grinding and polishing occupations	8	18	—	—	36	12	16	6	—	—	65	31	29	—
Miscellaneous hand working occupations	24	—	—	—	—	—	—	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	111	71	389	67	784	393	267	110	—	—	1 870	716	1 395	427
Production inspectors, checkers, and examiners	77	37	282	55	607	294	223	100	—	—	1 448	559	164	47
Production samplers and weighers	—	—	7	—	93	39	21	5	—	—	153	53	6	—
Graders and sorters, except agricultural	34	34	91	12	84	60	23	5	—	—	257	98	16	—
Transportation and material moving occupations														
Motor vehicle operators	1 651	77	11 494	125	8 245	296	12 459	235	68	—	34 933	1 230	20 175	283
Supervisors, motor vehicle operators	1 287	55	7 195	68	6 832	148	10 777	171	48	—	29 940	948	12 671	165
Truck drivers, heavy	26	—	41	—	13	—	44	—	—	—	14 193	174	16	—
Truck drivers, light	593	21	5 469	32	2 916	23	5 556	79	31	—	11 577	406	11 091	84
Truck drivers, light	447	26	1 418	14	3 315	95	4 487	76	9	—	11 199	310	1 170	66
Driver-sales workers	180	8	168	9	432	12	498	10	8	—	3 394	26	98	—
Bus drivers	12	—	9	—	140	8	186	6	—	—	54	6	280	11
Taxicab drivers and chauffeurs	29	—	6	—	14	—	6	—	—	—	21	—	16	4
Parking lot attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rail transportation occupations	7	—	31	—	10	—	—	—	—	—	16	—	51	—
Railroad conductors and yardmasters	—	—	—	—	—	—	—	—	—	—	—	—	10	—
Locomotive operating occupations	7	—	21	—	10	—	—	—	—	—	16	—	36	—
Railroad brake, signal, and switch operators	—	—	8	—	—	—	—	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	113	9	11	—
Water transportation occupations	6	—	8	—	—	—	27	6	—	—	91	2	7	—
Ship captains and mates, except fishing boats	6	—	8	—	—	—	6	—	—	—	22	7	4	—
Salors and deckhands	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marine engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	18	6	—	—	—	—	—	—
Material moving equipment operators	351	22	4 260	57	1 403	148	1 655	58	20	—	4 844	273	7 442	118
Supervisors, material moving equipment operators	62	—	191	6	150	6	79	2	—	—	321	31	29	—
Operating engineers	—	—	65	—	11	—	14	—	—	—	154	—	178	—
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	11	—
Hoist and winch operators	—	—	15	—	12	—	—	—	—	—	46	8	6	—
Crane and tower operators	—	—	2 312	55	57	16	—	—	—	—	467	—	4 288	16
Excavating and loading machine operators	8	—	86	—	3	—	261	5	—	—	67	—	135	2
Grader, dozer, and scraper machine operators	—	—	—	—	—	—	20	18	—	—	46	—	94	8
Grader, dozer, and scraper machine operators	254	12	1 187	85	947	85	1 011	15	6	—	2 817	95	2 306	43
Aerial truck and tractor equipment operators	27	10	346	41	223	41	195	18	7	—	924	139	395	49
Alienous material moving equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

United States

Wholesale trade, durable goods.—Con.

Employed persons 16 years and over.—Con.	Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Operators, fabricators, and laborers.—Con.	3 450	1 175	8 466	380	10 156	1 495	14 266	2 012	86	32	25 384	4 226	18 883	1 078
Handlers, stock, and material handlers	—	—	13	—	13	—	17	—	—	—	29	8	12	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	—	—	24	6	14	—	146	—	30	5	436	5	38	9
Helpers, mechanics and repairers	—	—	44	—	30	—	814	21	—	—	47	6	9	—
Helpers, construction and extractive occupations	—	—	44	—	30	—	—	—	—	—	12	—	—	—
Helpers, construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, surveyor	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	27	—	57	—	55	6	166	6	—	—	—	—	—	—
Production helpers	38	23	319	15	171	16	147	5	—	—	200	22	121	—
Freight, stock, and material handlers	458	101	1 999	29	1 749	125	2 359	137	7	7	3 729	419	1 254	10
Shovelers and collectors	—	—	—	—	3	—	—	—	—	—	—	—	—	—
Stock handlers and helpers	—	—	10	—	—	—	21	—	—	—	4	—	145	—
Machine feeders and operators	255	97	122	5	947	99	1 051	102	7	7	1 588	295	137	30
Machine tool operators	14	4	61	—	20	8	67	6	—	—	98	25	50	—
Freight, stock, and material handlers, n.e.c.	189	—	1 806	24	779	18	1 220	29	—	—	2 039	99	1 597	71
Garage and service station related occupations	2	—	19	—	7	—	205	6	—	—	274	—	55	—
Vehicle washers and equipment cleaners	4	—	50	4	59	6	60	6	—	—	33	—	132	—
Hand packers and packagers	990	587	524	127	1 302	575	1 640	828	9	9	3 843	885	330	121
Laborers, except construction	1 931	464	5 417	199	6 756	767	8 712	1 003	40	11	15 750	1 842	16 133	832

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods		Farm products—raw materials									
Miscellaneous wholesale, durable goods		Apparel, fabrics, and notions		Groceries and related products									
Total		Total		Total									
Total	Female	Total	Female	Total	Female								
86 290	33 500	2 019 040	573 173	107 230	35 399	160 897	57 878	120 541	55 993	745 237	184 460	98 902	24 452
18 117	4 523	345 455	64 675	19 084	4 359	32 399	6 724	22 757	7 484	94 328	15 283	29 482	2 738
16 151	3 936	315 017	54 928	17 731	3 842	27 245	5 612	19 892	5 592	89 381	14 043	28 508	2 541
Employed persons 16 years and over													
Managerial and professional specialty occupations													
Executive, administrative, and managerial occupations													
Legislative, executive, and general administrators													
Public administration													
Administrators and officials, public administration													
Federal													
State													
Local													
Administrators, protective services													
Financial managers													
Personnel and labor relations managers													
Purchasing managers													
Managers, marketing, advertising, and public relations													
Administrators, education and related fields													
Managers, medicine and health													
Managers, properties and real estate													
Postmasters and mail superintendents													
Federal directors													
Managers and administrators, n.e.c.													
Self-employed													
Management related occupations													
Accountants and auditors													
Underwriters													
Other financial officers													
Management analysts													
Personnel, training, and labor relations specialists													
Purchasing agents and buyers, farm products													
Buyers, wholesale and retail trade except farm products													
Purchasing agents and buyers, n.e.c.													
Business and promotion agents													
Construction inspectors													
Inspectors and compliance officers, except construction													
Management related occupations, n.e.c.													
Professional specialty occupations													
Engineers, architects, and surveyors													
Architects													
Engineers													
Aerospace engineers													
Metallurgical and materials engineers													
Mining engineers													
Petroleum engineers													
Chemical engineers													
Nuclear engineers													
Civil engineers													
Agricultural engineers													
Electrical and electronic engineers													
Industrial engineers													
Mechanical engineers													
Marine engineers and naval architects													
Engineers, n.e.c.													
Surveyors and mapping scientists													
Mathematical and computer scientists													
Computer systems analysts and scientists													
Operations and systems researchers and analysts													
Actuaries													
Statisticians													
Mathematical scientists, n.e.c.													

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Wholesale trade, durable goods—Con.				Wholesale trade, nondurable goods				Drugs, chemicals, and allied products				Apparel, fabrics, and notions				Groceries and related products				Farm products—raw materials			
	Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States																								
Employed persons 16 years and over—Con.	210	2	3 722	784	29	11	1 264	251	14	5	410	106	144	21										
Managerial and professional specialty occupations—Con.	6	—	19	310	—	—	10	188	—	—	219	60	37	7										
Professional specialty occupations—Con.	6	—	1 770	311	23	11	1 006	6	5	5	5	5	5	7										
Natural scientists, n.e.c.	6	—	648	141	—	—	13	6	—	—	—	—	9	7										
Chemists, except biochemists	6	—	19	5	—	—	12	—	—	—	—	—	2	7										
Atmospheric and space scientists	19	2	938	226	—	—	44	49	—	—	130	27	89	7										
Physical scientists, n.e.c.	2	—	239	70	6	—	118	49	—	—	41	7	7	—										
Agricultural and food scientists	153	—	49	13	—	—	56	8	—	—	7	—	—	—										
Biological and life scientists	11	—	74	8	—	—	76	8	—	—	16	—	17	—										
Forestry and conservation scientists	—	—	145	—	—	—	64	—	—	—	10	—	—	—										
Medical scientists	—	—	31	—	—	—	12	—	—	—	6	—	—	—										
Health diagnosing occupations	—	—	29	—	—	—	—	—	—	—	—	—	—	—										
Physicians	—	—	74	—	—	—	74	—	—	—	—	—	—	—										
Dentists	—	—	31	—	—	—	31	—	—	—	—	—	—	—										
Veterinarians	—	—	29	—	—	—	29	—	—	—	—	—	—	—										
Optometrists	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
Podiatrists	—	—	11	—	—	—	11	—	—	—	—	—	—	—										
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
Health assessment and treating occupations	23	10	761	365	20	6	426	195	46	8	119	77	9	7										
Registered nurses	18	10	211	182	6	6	62	59	8	8	37	24	2	2										
Pharmacists	5	—	344	77	14	—	26	28	38	—	82	53	7	5										
Dietitians	—	—	151	86	—	—	29	12	—	—	—	—	—	—										
Therapists	—	—	49	14	—	—	45	—	—	—	—	—	—	—										
Physicians' assistants	—	—	6	6	—	—	—	—	—	—	—	—	—	—										
Teachers, postsecondary	17	6	110	33	—	—	13	8	26	13	20	6	12	2										
Teachers, except postsecondary	—	—	630	278	61	18	72	48	49	42	101	54	16	—										
Teachers, prekindergarten and kindergarten	—	—	8	—	—	—	—	—	—	—	—	—	—	—										
Teachers, elementary and secondary school	—	—	6	—	—	—	—	—	—	—	—	—	—	—										
Teachers, special education	—	—	6	—	—	—	—	—	—	—	—	—	—	—										
Teachers, n.e.c.	—	—	616	264	61	18	72	48	49	42	101	54	16	—										
Counselors, educational and vocational	15	2	6	—	—	—	—	—	—	—	—	—	—	—										
Librarians, archivists, and curators	23	6	184	109	—	—	34	27	12	—	24	15	6	6										
Literarians	17	6	153	103	—	—	37	27	12	—	18	9	6	6										
Artists and curators	6	—	31	6	—	—	7	—	—	—	—	—	—	—										
Social scientists and urban planners	196	40	3 179	826	136	66	561	150	237	100	693	184	77	2										
Economists	181	33	3 132	801	127	57	561	150	237	100	693	184	77	2										
Psychologists	8	—	7	—	—	—	—	—	—	—	—	—	—	—										
Sociologists	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
Social scientists, n.e.c.	7	7	25	16	4	4	—	—	—	—	—	—	—	—										
Urban planners	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
Social, recreation, and religious workers	19	2	197	94	5	5	7	—	14	7	88	—	10	—										
Social workers	17	2	115	12	12	6	7	—	7	—	35	—	10	—										
Recreation workers	2	2	42	5	—	—	—	—	—	—	20	—	—	—										
Clergy	—	—	33	7	—	—	—	—	7	7	26	—	—	—										
Religious workers, n.e.c.	—	—	7	—	—	—	—	—	—	—	—	—	—	—										
Lawyers and judges	38	—	934	64	15	—	135	—	17	—	213	23	53	21										
Judges	38	—	934	64	15	—	135	—	17	—	213	23	53	21										
Lawyers	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
Writers, artists, entertainers, and athletes	987	435	11 260	6 155	612	349	662	276	2 231	1 646	1 422	545	270	109										
Authors	—	—	33	—	—	—	—	—	—	—	—	—	—	—										
Technical writers	—	—	157	63	16	8	15	—	—	—	—	—	—	—										
Designers and composers	524	285	6 312	3 919	304	176	256	104	1 822	1 356	49	105	32	2										
Musicians and composers	17	—	51	18	—	—	6	—	—	—	—	—	—	—										
Actors and directors	26	17	68	10	—	—	23	3	—	—	—	—	—	—										
Painters, sculptors, craft-artists, and artist printmakers	69	32	1 283	724	99	59	116	34	195	117	227	131	2	5										
Photographers	10	—	91	24	—	—	7	—	—	—	7	—	8	—										
Dancers	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
Artists, performers, and related workers, n.e.c.	20	8	158	108	70	63	44	36	30	23	38	26	—	—										
Editors and reporters	44	18	790	549	105	43	195	99	129	103	111	54	56	48										
Public relations specialists	277	75	2 212	698	12	6	—	—	—	—	—	—	—	—										
Announcers	—	—	31	2	—	—	—	—	—	—	—	—	—	—										
Athletes	—	—	84	23	—	—	—	—	—	—	—	—	—	—										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, nondurable goods														
Wholesale trade, durable goods—Con.	Total		Female		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—row materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Miscellaneous wholesale, durable goods														
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations	48 521	23 370	893 445	386 122	58 637	26 102	90 206	42 152	69 038	34 073	258 983	105 932	32 091	18 591
Technicians and related support occupations	856	303	15 084	4 444	892	159	3 752	1 234	403	166	3 467	1 211	551	121
Health technicians and technicians	31	—	486	246	13	—	256	157	15	15	96	44	—	—
Clinical laboratory technicians and technicians	6	—	198	126	6	—	139	102	—	—	36	21	—	—
Dental hygienists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technicians and technicians	5	—	7	—	7	—	—	—	—	—	—	—	—	—
Radiologic technicians	7	—	23	7	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	13	—	93	63	—	—	32	32	8	8	34	12	—	—
Health technicians and technicians, n.e.c.	—	—	165	50	—	—	85	23	7	7	19	11	—	—
Engineering and related technicians and technicians	226	78	4 555	1 096	306	64	1 323	373	83	41	753	244	80	17
Electrical and electronic technicians	122	41	947	79	162	6	194	12	38	21	116	20	22	—
Industrial engineering technicians	18	18	98	20	13	13	17	—	6	—	13	—	3	—
Mechanical engineering technicians	—	—	41	—	1	—	6	—	—	—	2	—	—	—
Engineering technicians, n.e.c.	16	2	2 328	806	77	21	897	345	30	18	415	188	42	11
Drafting occupations	65	17	1 004	160	35	11	204	16	7	2	188	30	13	6
Surveying and mapping technicians	5	—	137	31	18	13	5	—	2	—	19	6	—	—
Science technicians	16	8	2 419	861	42	11	730	250	47	25	646	334	166	11
Biological technicians	2	2	972	392	—	—	31	17	—	—	393	202	113	11
Chemical technicians	8	—	840	230	14	—	572	168	8	—	75	39	3	—
Science technicians, n.e.c.	6	—	607	239	28	11	127	65	39	25	178	93	50	—
Technicians, except health, engineering, and science	583	217	7 624	2 241	531	84	1 443	454	258	85	1 972	589	305	93
Airplane pilots and navigators	9	—	523	—	17	—	37	—	17	—	98	—	50	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	12	—	86	—	—	—	15	—	—	—	16	—	—	—
Computer programmers	163	87	4 129	1 409	248	84	621	254	166	64	1 455	454	183	68
Food programmers, numerical control	6	—	100	18	—	—	13	—	—	—	51	—	2	—
Legal assistants	18	—	371	245	14	—	36	23	20	12	43	38	5	—
Technicians, n.e.c.	375	106	2 415	560	252	—	721	171	55	9	309	97	65	20
Sales occupations	24 885	5 345	472 113	81 936	29 570	5 462	44 353	8 590	36 160	10 812	139 504	23 823	10 140	1 371
Superintendents and proprietors, sales occupations	4 057	633	65 269	8 246	1 897	345	3 056	594	3 619	958	21 369	1 990	2 260	159
Salesmen	2 413	348	45 738	5 354	1 540	287	2 471	469	2 772	786	15 799	1 304	1 746	136
Self-employed	1 644	285	1 731	2 892	337	58	585	125	897	172	6 170	886	514	23
Sales representatives, finance and business services	81	40	1 271	293	38	—	93	17	47	13	286	81	39	7
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	11	—	405	57	—	—	26	—	20	3	47	11	25	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	70	40	866	236	38	11	67	17	27	10	239	70	14	7
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	20 163	4 288	381 391	57 460	26 842	4 632	39 486	6 642	31 405	9 146	106 844	13 406	6 726	908
Sales engineers	198	—	3 225	33	67	—	298	—	36	—	151	7	27	—
Sales representatives, mining, manufacturing, and wholesale	4 288	—	378 166	57 427	26 775	4 632	39 188	6 642	31 569	9 146	106 693	13 399	6 699	908
Sales workers, retail and personal services	555	372	22 586	15 797	768	461	1 425	1 258	879	692	10 409	7 921	414	238
Sales workers, commodities	52	5	1 441	152	56	16	72	37	51	—	368	29	53	4
Sales counter clerks	7	—	344	138	17	—	6	—	67	44	81	30	4	—
Cashiers	298	267	15 942	12 763	235	209	751	699	575	528	9 092	7 386	299	236
Street and door-to-door sales workers	176	93	3 635	1 996	396	215	773	503	186	120	796	450	50	13
News vendors	22	7	1 224	248	64	11	21	14	—	—	72	6	8	5
Sales related occupations	29	12	1 596	640	25	13	93	79	10	3	596	425	701	39
Demonstrators, promoters and models, sales	27	12	686	517	7	—	58	58	—	—	526	397	—	—
Auctioneers	2	—	779	44	—	—	—	—	7	—	24	2	701	39
Sales support occupations, n.e.c.	—	—	131	79	18	13	35	21	3	3	46	26	—	—
Administrative support occupations, including clerical	22 780	17 722	406 248	299 742	28 175	20 481	42 101	32 328	32 475	23 095	116 012	80 898	21 400	17 099
Supervisors, administrative support occupations	1 531	818	23 687	9 842	1 537	608	2 511	1 139	2 436	1 064	7 389	2 514	787	364
Supervisors, general office	957	511	13 109	6 717	761	343	1 775	775	1 385	710	3 892	1 710	374	216
Supervisors, computer equipment operators	17	6	956	421	65	27	162	57	70	47	223	80	50	29
Supervisors, financial records processing	257	192	4 119	1 998	295	175	488	228	320	193	1 115	550	193	96
Chief communications operators	—	—	83	—	—	—	13	—	—	—	16	14	25	—
Supervisors, distribution, scheduling, and adjusting clerks	300	109	5 420	692	416	63	554	79	661	114	2 143	160	145	23
Computer equipment operators	593	300	14 437	10 124	934	748	1 926	1 243	859	659	4 303	2 806	606	440
Computer operators	571	487	13 679	9 594	879	571	1 844	1 191	829	639	4 102	2 678	556	405
Peripheral equipment operators	22	22	758	530	55	51	82	52	30	20	201	128	50	35

Employed Persons by Detailed Industry and Sex: 1980—Con.

a are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A)

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods											
Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
4 945	4 860	95 395	94 002	5 802	5 704	11 282	11 184	5 737	5 624	23 591	23 236	4 694	4 662
4 480	4 414	86 580	85 522	5 054	4 971	10 165	10 085	4 855	4 795	21 876	21 606	4 449	4 417
27	27	581	561	49	49	69	69	10	10	83	83	12	12
438	419	8 234	7 919	699	684	1 048	1 030	872	819	1 632	1 547	233	234
569	540	9 617	8 732	897	822	1 182	1 060	1 070	990	2 208	2 065	279	244
92	84	1 421	1 178	148	132	189	154	121	93	316	289	12	12
—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	249	100	14	—	33	7	14	14	78	34	33	18
391	375	6 534	6 361	637	626	763	747	820	798	1 423	1 405	205	197
81	81	1 413	1 093	98	64	197	152	115	85	391	337	29	17
1 887	1 396	25 094	17 391	2 592	1 929	3 719	2 999	2 045	1 544	7 268	4 259	481	308
12	—	323	227	23	14	59	45	15	15	35	30	—	—
25	25	337	273	30	26	2	2	15	15	5	5	—	—
1 326	926	18 957	12 154	2 004	1 407	2 871	2 261	1 511	1 085	5 942	3 151	270	148
7	7	104	437	9	3	12	50	41	41	221	205	—	—
6	6	104	79	—	—	12	12	5	—	14	14	—	—
372	311	4 153	3 636	472	436	507	443	353	331	841	706	171	141
139	121	737	585	54	43	125	93	80	72	100	78	40	19
5 236	4 796	95 848	85 227	5 479	5 008	6 249	5 599	6 554	5 907	28 950	25 736	8 217	7 284
4 251	3 910	83 928	74 866	4 260	3 867	5 023	4 549	5 293	4 805	24 990	22 374	7 723	6 862
113	113	2 669	2 485	151	151	190	168	150	150	1 225	1 123	121	99
558	498	6 499	5 736	779	763	610	547	878	740	1 876	1 597	238	222
270	241	2 048	1 523	216	154	385	294	172	158	616	442	38	15
44	34	713	617	73	73	41	41	61	54	243	200	97	86
Duplicating, mail, and office machine operators	71	51	662	437	64	62	40	166	94	139	116	37	21
Duplicating machine operators	36	22	169	72	20	13	13	66	19	26	22	16	—
Mail preparing and paper handling machine operators	17	11	111	86	12	10	—	40	40	29	19	—	—
Office machine operators, n.e.c.	18	18	382	279	32	14	49	60	35	84	75	21	21
Communications equipment operators	109	96	2 029	1 918	271	271	209	204	161	153	766	693	52
Telephone operators	84	76	1 976	1 886	271	271	209	204	137	129	758	693	49
Telegraphers	25	20	47	32	—	—	—	24	24	2	—	3	—
Communications equipment operators, n.e.c.	—	—	6	—	—	—	—	—	—	6	—	—	—
Mail and message distributing occupations	291	113	4 945	1 695	326	109	614	543	214	1 340	413	126	38
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, except postal service	199	101	3 577	1 399	269	86	498	367	177	930	350	87	32
Mail clerks, except postal service	92	12	1 368	296	57	23	116	176	37	410	63	39	6
Messengers	3 989	1 546	68 209	19 176	5 691	1 509	7 262	8 281	3 037	22 844	5 163	2 251	547
Material recording, scheduling, and distributing clerks	48	16	3 775	593	88	47	221	40	38	1 174	147	61	6
Dispatchers	210	121	4 473	2 209	186	105	447	250	272	1 786	868	121	55
Production coordinators	1 921	514	27 882	4 788	2 979	320	3 189	709	4 605	1 129	8 661	494	160
Traffic, shipping, and receiving clerks	1 449	683	22 715	7 471	1 902	754	2 622	1 256	928	7 624	1 793	390	125
Stock and inventory clerks	—	—	—	—	—	—	—	—	—	—	—	—	—
Meiter readers	199	103	6 336	2 226	230	65	452	303	205	2 970	1 094	1 099	167
Weights, measurers, and checkers	—	—	105	28	7	—	7	—	—	12	—	8	—
Samplers	119	66	1 846	1 164	211	156	244	289	170	377	237	35	18
Expeditors	—	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.	43	43	1 077	677	88	62	80	412	333	240	106	43	16
Adjusters and investigators	336	198	5 824	3 231	582	341	819	601	456	1 126	603	126	40
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	269	149	4 469	2 376	481	286	649	424	310	853	467	95	30
Equality clerks, social welfare	—	—	80	46	—	—	7	—	—	32	17	—	—
Bill and account collectors	67	49	1 275	809	101	55	163	177	146	241	119	31	10
Miscellaneous administrative support occupations	3 223	2 799	60 501	47 967	4 000	3 395	6 266	5 410	4 022	16 088	13 294	3 744	3 102
General office clerks	2 407	2 114	43 164	34 293	2 754	2 290	3 827	3 300	2 865	11 324	9 373	2 898	2 407
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—
Bank clerks	7	7	201	160	56	51	28	41	—	5	—	5	—
Proofreaders	435	423	11 438	10 190	843	826	1 805	1 703	580	3 465	3 294	5	5
Statistical clerks	131	84	1 874	1 334	63	42	160	122	175	445	274	115	5
Statistical clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers	243	171	3 771	1 956	284	186	446	305	194	846	355	202	127

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Administrative support occupations, including clerical—Con.

Secretaries, stenographers, and typists—Con.

Information clerks—

Information clerks—

Information clerks—

Information clerks—

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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Wholesale trade, nondurable goods													
	Wholesale trade, durable goods—Con.		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Service occupations	877	208	37 316	9 999	1 067	277	2 161	652	1 535	535	19 726	5 484	2 996	912
Private household occupations	311	—	3 759	218	102	—	300	44	215	24	1 761	46	186	17
Protective service occupations	11	—	162	6	5	—	22	6	5	—	85	—	—	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	11	—	162	6	5	—	22	6	5	—	85	—	9	—
Freight and fire prevention occupations	70	—	56	—	—	—	16	—	—	—	16	—	9	—
Fire inspection and fire prevention occupations	64	—	47	—	—	—	12	—	—	—	11	—	9	—
Freighting occupations	6	—	9	—	—	—	4	—	—	—	5	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	230	—	3 541	212	97	—	262	38	210	24	1 660	46	177	17
Crossing guards	6	—	8	—	8	—	—	—	—	—	—	—	—	—
Guards and police, except public service	224	—	3 521	205	89	—	262	38	208	24	1 660	46	170	10
Protective service occupations, n.e.c.	—	—	12	7	—	—	—	—	2	—	—	—	7	—
Service occupations, except protective and household	566	208	33 557	9 781	965	277	1 861	608	1 320	511	17 965	5 438	2 810	895
Food preparation and service occupations	38	—	8 263	4 719	49	33	155	118	57	39	6 670	3 601	534	504
Supervisors, food preparation and service occupations	5	—	1 064	211	2	—	17	8	9	9	938	170	22	7
Bartenders	14	—	807	714	—	—	42	25	17	12	38	35	—	—
Waiters and waitresses	14	—	807	714	—	—	42	25	17	12	38	35	—	—
Cooks, except short order	18	—	2 846	1 552	33	19	32	25	15	8	2 357	1 372	210	205
Short-order cooks	—	—	17	—	6	—	—	—	—	—	14	—	3	—
Food counter, fountain and related occupations	—	—	432	218	—	—	21	13	10	10	309	144	3	—
Kitchen workers, food preparation	—	—	1 227	880	8	8	—	—	—	—	1 166	841	13	13
Waiters and waitresses	—	—	237	109	—	—	17	17	—	—	166	71	15	13
Waiters' and waitresses' assistants	—	—	964	964	—	—	26	13	6	—	1 223	760	108	103
Miscellaneous food preparation occupations	5	—	1 494	964	—	—	—	—	—	—	—	—	9	—
Health service occupations	5	—	367	260	—	—	168	132	27	27	82	39	—	—
Dental assistants	—	—	98	63	—	—	56	45	7	7	29	11	—	—
Health aides, except nursing	—	—	249	197	—	—	112	87	20	20	53	28	—	—
Nursing aides, orderlies, and attendants	5	—	267	197	—	—	112	87	20	20	53	28	9	—
Cleaning and building service occupations, except household	433	132	23 247	3 911	889	224	1 349	202	881	171	10 981	1 649	2 024	372
Supervisors, cleaning and building service workers	—	—	598	29	12	—	40	6	23	—	303	10	43	13
Maid and housemen	24	—	1 800	710	81	38	74	13	66	6	1 013	366	147	84
Janitors and cleaners	396	116	19 938	3 159	777	186	1 210	178	736	165	9 567	1 273	1 341	273
Elevator operators	8	—	739	13	19	—	5	5	56	—	58	2	476	2
Pest control occupations	—	—	172	—	—	—	20	—	—	—	40	—	17	—
Personal service occupations	72	33	1 680	891	27	20	189	156	355	274	232	149	243	19
Supervisors, personal service occupations	25	11	294	13	7	—	15	—	29	—	2	2	220	13
Barbers	7	—	17	—	—	—	—	—	13	—	2	—	—	—
Hairdressers and cosmetologists	—	—	207	180	—	—	142	136	31	24	5	—	—	—
Attendants, amusement and recreation facilities	2	—	90	55	12	12	6	—	30	19	23	12	7	6
Guides	—	—	33	8	—	—	—	—	5	—	—	—	—	—
Ushers	—	—	19	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	7	—	393	169	—	—	14	8	—	—	26	15	—	—
Personal service occupations, n.e.c.	31	22	627	464	8	8	12	12	247	231	176	120	10	—
Farming, forestry, and fishing occupations	195	19	6 456	2 000	60	—	79	11	2	—	1 129	185	1 164	71
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	1 728	1 018	—	—	—	—	—	—	—	—	—	—
Related agricultural occupations	12	4	3 469	830	27	—	60	11	304	66	—	—	27	13
Supervisors, related agricultural occupations	—	—	75	—	—	—	—	—	12	—	—	—	115	54
Groundskeepers and gardeners, except farm	12	4	2 100	685	27	—	24	—	208	28	—	—	19	—
Animal caretakers, except farm	—	—	1 282	137	—	—	30	11	82	38	—	—	64	—
Graders and sorters, agricultural products	—	—	—	—	—	—	6	—	—	—	—	—	1 030	54
Inspectors, agricultural products	—	—	12	—	—	—	—	—	—	—	2	—	—	—

Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction for meaning of symbols; see introduction for definitions of terms; see appendix A.)

	Wholesale trade, durable goods—Con		Wholesale trade, nondurable goods		Drugs, chemicals, and allied products		Paper and paper products		Apparel, fabrics, and notions		Groceries and related products		Farm products		Low materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Miscellaneous wholesale, durable goods																
177	15	386	35	33	12	—	—	—	2	—	19	15	8	4	—	—
11	—	13	8	—	6	—	—	—	2	—	4	—	3	—	—	—
159	15	293	27	20	6	—	—	—	—	—	15	15	5	—	—	—
6	—	873	117	—	7	—	—	—	—	—	806	104	14	—	—	—
—	—	121	5	—	7	—	—	—	—	—	121	5	—	—	—	—
6	—	739	107	—	—	—	—	—	—	—	678	94	14	—	—	—
13	—	13	5	—	—	—	—	—	—	—	7	5	—	—	—	—
7 920	1 561	147 724	17 507	5 078	7 332	896	604	—	7 853	3 907	74 301	7 983	6 232	—	—	—
2 594	330	36 070	751	1 595	1 676	60	53	—	583	90	14 120	195	1 932	289	—	—
94	25	1 616	49	35	95	—	—	—	34	—	625	16	99	2	—	—
2 500	305	34 454	702	1 560	1 581	60	47	—	549	90	13 495	179	1 863	—	—	—
118	—	11 656	56	116	300	—	—	—	72	4	3 061	8	628	2	—	—
52	—	7 197	29	74	145	—	—	—	30	2	3 236	5	329	—	—	—
19	—	2 113	—	5	42	—	—	—	12	—	1	—	114	—	—	—
7	—	111	—	—	16	—	—	—	—	—	36	—	15	—	—	—
—	—	163	—	—	15	9	—	—	2	2	74	3	10	—	—	—
30	—	343	20	15	63	—	—	—	—	—	508	—	31	—	—	—
10	—	858	6	22	19	—	—	—	10	—	129	—	129	—	—	—
145	—	6 722	155	534	422	—	13	—	154	36	3 166	52	320	—	—	—
11	—	969	43	5	11	—	—	—	13	—	180	8	49	—	—	—
184	25	1 226	100	83	85	21	6	—	82	6	315	14	55	—	—	—
45	7	261	9	35	14	—	—	—	16	—	77	—	2	—	—	—
44	6	189	34	25	25	—	6	—	5	—	40	8	—	—	—	—
43	—	392	20	5	12	—	—	—	32	—	105	6	19	—	—	—
6	—	14	7	—	7	—	—	—	7	—	4	—	—	—	—	—
34	6	161	30	10	22	6	—	—	29	6	—	—	—	—	—	—
12	6	209	8	8	—	—	—	—	—	—	4	—	23	—	—	—
2 042	—	2 817	9	17	29	—	—	—	—	—	89	—	11	—	—	—
574	280	11 064	339	805	734	30	28	—	16	—	801	—	41	—	—	—
12	136	99	8	4	27	—	—	—	212	44	3 972	97	770	2	—	—
19	—	21	—	—	—	—	—	—	—	—	2	—	—	—	—	—
15	—	462	23	302	15	—	6	—	—	—	82	15	16	—	—	—
6	8	167	9	16	13	—	—	—	—	—	19	—	—	—	—	—
46	9	212	—	6	7	—	—	—	—	—	54	—	91	—	—	—
118	118	1 008	44	18	74	7	14	—	37	5	176	—	262	—	—	—
1 210	9	3 826	85	167	152	6	8	—	112	30	1 588	57	153	—	—	—
160	—	5 269	292	292	446	10	—	—	53	9	2 049	25	248	—	—	—
378	32	7 499	307	357	667	12	21	—	295	39	1 924	80	440	—	—	—
14	—	802	18	59	63	—	1	—	14	—	179	5	47	—	—	—
—	—	—	—	—	7	—	—	—	—	—	6	—	6	—	—	—
—	—	27	—	—	—	—	—	—	—	—	36	5	—	—	—	—
—	—	101	10	13	—	—	—	—	—	—	—	—	—	—	—	—
—	—	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	645	8	46	56	—	1	—	14	—	—	—	—	—	—	—
364	32	6 697	289	298	604	12	20	—	281	39	1 745	75	393	—	—	—
—	—	95	6	—	7	—	—	—	6	—	6	—	41	—	—	—
—	—	6	—	—	—	—	—	—	—	—	6	—	—	—	—	—
35	—	37	—	—	—	—	—	—	—	—	6	—	—	—	—	—
158	25	1 823	84	112	125	—	11	—	121	14	8	—	6	—	—	—
60	—	21	38	126	122	—	—	—	49	—	526	30	197	—	—	—
—	—	1 655	—	—	—	—	—	—	6	—	5	10	92	—	—	—
13	7	1 244	141	25	113	12	9	—	47	25	237	15	44	—	—	—
—	—	60	2	—	—	—	—	—	—	—	18	—	—	—	—	—

...employed persons 14 years and over—Con.

Forestry and logging occupations	Supervisors, except logging workers	Forestry workers, except logging workers	Timber cutting and logging occupations	Fishers, hunters, and trappers	Captains and other officers, fishing vessels	Fishers	Hunters and trappers	Precision production, craft, and repair occupations	Mechanics and repairers	Supervisors, mechanics and repairers	Mechanics and repairers, except supervisors	Vehicle and mobile equipment mechanics and repairers	Automobile mechanics	Bus, truck, and stationary engine mechanics	Aircraft engine mechanics	Aircraft engine repairers	Aircraft body and related repairers	Heavy equipment mechanics	Heavy equipment mechanics	Farm equipment mechanics	Industrial machinery repairers	Machinery maintenance occupations	Electrical and electronic equipment repairers	Electronic repairers, except communications and industrial equipment	Data processing equipment repairers	Household appliance and power tool repairers	Telephone installers and repairers	Telephone installers and repairers	Miscellaneous electrical and electronic equipment repairers	Heating, air conditioning, and refrigeration mechanics	Mechanics and repairers	Camera, watch, and musical instrument repairers	Opticians and safe repairers	Office machine repairers	Mechanical controls and valve repairers	Electrician installers and repairers	Millwrights	Specialized mechanics and repairers, n.e.c.	Not specified mechanics and repairers	Construction trades	Supervisors, construction occupations	Supervisors; brickmasons, stonemasons, and tile setters	Supervisors; carpenters and related workers	Supervisors; electricians and power transmission installers	Supervisors; painters, paperhangers, and plasterers	Supervisors; plumbers, pipefitters, and steamfitters	Supervisors, n.e.c.	Construction trades, except supervisors	Brickmasons and stonemasons	Tile setters, hard and soft	Carpenter installers	Carpenters	Drywall installers	Electricians	Electrical power installers and repairers	Painters, construction and maintenance	Paperhangers
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Wholesale trade, durable goods—Con.				Wholesale trade, nondurable goods			
	Miscellaneous wholesale, durable goods		Total		Drugs, chemicals, and allied products		Apparel, fabrics, and notions	
	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.								
Precision production, craft, and repair occupations—Con.								
Construction trades—Con.								
Construction trades, except supervisors—Con.								
Plumbers	54	—	1 157	16	—	—	13	—
Concrete and masonry finishers	—	—	14	—	—	—	—	—
Glaziers	—	—	73	—	—	—	—	—
Insulation workers	2	—	135	—	46	—	—	—
Paving, surfacing, and tamping equipment operators	—	—	—	—	—	—	—	—
Roofers	—	—	8	—	—	—	—	—
Sheetmetal duct installers	—	—	26	—	—	—	—	—
Structural metal workers	8	—	49	—	—	—	—	—
Drillers, earth	—	—	23	—	—	—	—	—
Construction trades, n.e.c.	34	—	245	2	—	—	37	—
Extractive occupations	—	—	423	27	18	—	—	—
Supervisors, extractive occupations	—	—	134	17	56	—	—	—
Drillers, oil well	—	—	82	—	—	—	—	—
Explosives workers	—	—	41	—	38	—	—	—
Mining machine operators	—	—	19	—	—	—	—	—
Mining occupations, n.e.c.	—	—	117	5	12	—	—	—
Precision production occupations	4 948	1 199	103 732	16 427	4 933	824	6 975	3 778
Supervisors, production occupations	1 945	450	63 310	7 316	4 167	689	3 253	974
Precision metalworking occupations	2 752	636	3 018	345	196	8	272	124
Tool and die makers	8	—	189	5	13	—	6	—
Precision assemblers, metal	5	—	20	7	—	—	7	—
Machinists	74	—	2 059	138	125	8	129	27
Boilermakers	—	—	137	—	25	—	—	—
Precision grinders, filers, and tool sharpeners	3	—	33	8	7	—	6	—
Patternmakers and model makers, metal	—	—	93	74	—	—	82	48
Lay-out workers	—	—	50	19	—	—	14	8
Precious stones and metals workers (jewelers)	—	—	90	24	—	—	18	6
Engravers, metal	2 480	561	190	70	10	—	2	—
Steel metal workers	6	—	185	—	16	—	8	—
Miscellaneous precision metal workers	—	—	12	—	—	—	—	—
Precision woodworking occupations	35	6	170	20	15	—	28	—
Pottery and ceramic workers	15	6	8	—	8	—	—	—
Cabinet makers and bench carpenters	20	—	79	15	7	—	—	—
Furniture and wood finishers	—	—	70	5	—	—	22	—
Miscellaneous precision woodworkers	—	—	13	—	—	—	6	—
Precision textile, apparel, and furnishings machine workers	90	77	4 352	3 343	48	48	3 313	2 654
Dressmakers	78	65	3 380	3 037	30	30	2 634	2 455
Tailors	—	—	216	112	—	—	175	102
Upholsterers	—	—	21	23	—	—	167	53
Shoe repairers	5	—	182	55	—	—	17	7
Apparel and fabric patternmakers	7	—	131	70	18	18	30	13
Miscellaneous precision apparel and fabric workers	—	—	143	46	—	—	—	—
Precision workers, assorted materials	73	21	565	199	69	27	21	13
Hand molders and shapers, except jewelers	21	—	5	5	5	—	—	—
Pottery and ceramic workers, except potters	11	4	44	14	—	—	14	8
Optical goods workers	—	—	66	2	14	—	—	—
Dental laboratory and medical appliance technicians	3	—	20	5	9	2	2	—
Bookbinders	26	10	162	121	67	67	5	5
Electrical and electronic equipment assemblers	7	7	89	41	20	20	5	5
Miscellaneous precision workers, n.e.c.	5	—	174	11	16	—	—	—
Precision food production occupations	19	9	29 587	5 095	36	13	50	13
Butchers and meat cutters	19	9	24 346	3 541	23	6	26	6
Bakers	—	—	4 446	1 196	13	7	5	—
Food batchmakers	—	—	795	358	—	—	19	7
Precision inspectors, testers, and related workers	8	—	130	30	7	—	—	—
Inspectors, testing, and graders	—	—	130	30	—	—	—	—
Adjusters and calibrators	8	—	—	—	—	—	—	—
Groceries and related products								
Total	209	12	58 202	7 691	193	59	28 836	4 936
Female	4	—	27 642	2 573	109	36	23 707	3 442
Male	—	—	877	95	84	24	4 384	1 155
Apparel, fabrics, and notions								
Total	711	69	39	—	—	—	745	339
Female	13	—	—	—	—	—	20	—
Male	—	—	—	—	—	—	4	—
Drugs, chemicals, and allied products								
Total	3 830	273	3 191	—	—	—	351	57
Female	3 191	192	—	—	—	—	327	40
Male	96	—	—	—	—	—	12	—
Paper and paper products								
Total	21	—	3 126	530	4 933	824	6 975	3 778
Female	—	—	2 569	356	4 167	689	3 253	974
Male	—	—	326	36	196	8	272	124
Wholesale trade, nondurable goods								
Total	171	—	4 933	824	4 933	824	6 975	3 778
Female	—	—	4 167	689	4 167	689	3 253	974
Male	—	—	13	—	—	—	—	—
Farm products—raw materials								
Total	37	—	3 830	273	—	—	—	—
Female	4	—	3 191	192	—	—	—	—
Male	—	—	96	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods											
Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
26	—	2 780	79	29	7	395	39	38	—	506	13	91	—
—	—	32	11	7	7	5	—	2	—	9	—	—	—
—	—	46	11	—	—	15	—	—	—	—	—	—	—
10	—	1 570	47	13	—	181	28	36	—	465	13	43	—
16	—	1 129	21	—	—	194	11	—	—	32	—	48	—
10 660	3 819	588 644	92 870	23 304	4 057	28 720	7 443	19 356	9 994	296 770	49 593	26 937	1 851
3 578	1 613	95 277	40 891	5 340	1 668	5 361	1 968	8 648	5 830	45 111	22 793	6 275	1 086
1 996	679	56 003	18 643	4 377	1 134	3 806	1 159	6 519	4 191	19 689	7 233	3 960	442
1 330	77	1 292	18 230	85	41	46	15	75	14	299	61	206	2
17	—	102	12	23	—	4	4	5	—	5	—	7	—
—	—	61	8	5	—	—	—	8	8	22	—	—	—
18	13	229	87	21	7	5	—	28	—	52	21	15	2
—	—	8	—	—	—	—	—	—	—	4	—	—	—
7	—	60	26	28	26	—	—	—	—	—	—	7	—
288	64	741	84	8	8	32	6	34	6	174	40	166	—
—	—	29	8	—	—	—	—	—	—	9	—	8	—
—	—	4	—	—	—	—	—	—	—	—	—	—	—
—	—	53	5	—	—	5	5	—	—	24	—	3	—
22	10	67	26	7	—	—	—	22	22	130	43	24	—
107	10	787	244	136	51	53	16	114	65	112	31	24	—
77	—	647	198	116	31	38	9	91	6	12	12	—	—
30	—	26	4	5	5	6	—	—	—	6	—	—	—
—	—	28	—	—	—	—	—	—	—	—	—	—	—
—	—	28	—	—	—	—	—	17	17	—	—	—	—
147	—	453	75	5	—	29	—	27	6	104	57	11	2
5	—	—	—	—	—	—	—	—	—	—	—	—	—
106	—	297	48	5	—	13	—	17	6	71	36	11	2
—	—	40	27	—	—	—	—	6	6	27	21	—	—
—	—	6	—	—	—	—	—	—	—	6	—	—	—
36	—	110	—	—	—	16	—	4	—	—	—	—	—
71	16	2 318	747	598	137	168	62	251	103	571	211	20	—
52	4	1 885	518	480	82	139	37	245	103	518	180	18	—
—	—	89	49	21	5	—	—	—	—	6	6	2	—
13	6	190	121	56	34	23	23	—	—	12	12	—	—
6	—	154	59	41	16	6	—	6	—	35	13	—	—
34	34	3 527	2 512	65	46	40	29	2 108	1 580	283	114	102	48
—	—	208	142	16	7	—	—	67	32	7	5	11	11
—	—	156	85	3	3	—	—	75	31	7	7	7	—
—	—	101	19	—	—	—	—	—	—	92	19	—	—
29	29	2 123	1 791	21	21	31	25	1 408	1 230	71	40	39	13
—	—	76	76	—	—	—	—	—	—	9	—	—	—
—	—	340	151	8	8	4	4	290	131	—	—	—	—
—	—	114	74	8	—	—	—	60	34	31	25	6	6
5	5	362	174	9	7	5	—	130	76	66	18	39	18
1 285	542	47 559	14 809	3 481	859	3 470	1 037	3 922	2 401	18 302	6 747	3 597	390
38	18	195	132	50	53	7	—	31	31	58	24	4	4
44	34	3 894	1 700	58	56	545	290	128	91	2 278	965	47	27
—	—	233	122	—	—	8	—	7	—	67	10	51	—
27	8	3 470	284	5	—	384	37	139	16	883	143	517	9
3	—	1 560	123	21	—	280	12	—	—	272	42	216	25
15	—	688	240	102	19	6	—	73	27	230	108	21	5
35	6	665	129	40	19	101	—	56	51	158	11	10	—
—	—	201	4	—	—	—	—	—	—	179	4	14	—
—	—	196	129	—	—	—	—	18	—	173	111	3	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Wholesale trade, nondurable goods											
	Wholesale trade, durable goods—Con.			Total			Paper and paper products			Drugs, chemicals, and allied products		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Operators, fabricators, and laborers—Con.												
Machine operators, assemblers, and inspectors—Con.												
Machine operators and tenders, except precision—Con.												
Machine operators, assorted materials—Con.												
Folding machine operators	5	5	293	633	293	82	13	6	6	37	203	41
Furnace, kiln, and oven operators, except food	2	—	60	858	60	32	7	112	12	17	18	64
Crushing and grinding machine operators	15	—	131	2 223	131	7	—	11	—	—	74	518
Slicing and cutting machine operators	236	91	1 620	4 186	1 620	954	60	112	23	448	775	56
Motion picture projectionists	—	—	9	16	9	—	—	—	—	9	—	—
Motion picture process machine operators	10	10	150	332	150	57	42	73	7	21	40	5
Photographic machine operators, n.e.c.	313	136	3 194	9 218	685	195	585	199	532	3 202	1 186	857
Miscellaneous machine operators, n.e.c.	542	234	6 589	18 991	6 589	1 388	405	1 274	451	1 103	3 033	1 173
Machine operators, not specified	1 104	640	4 674	11 430	4 674	572	321	527	527	314	1 706	589
Fabricators, assemblers, and hand working occupations	92	—	80	2 789	80	66	9	251	6	34	14	379
Welders and cutters	61	30	6	18	6	—	—	6	—	—	—	—
Solders and brazers	61	30	6	18	6	—	—	6	—	—	—	—
Assemblers	794	562	4 040	7 208	4 040	481	308	781	505	423	1 302	136
Hand cutting and trimming occupations	7	—	766	766	300	—	—	8	8	13	290	42
Hand molding, casting, and forming occupations	29	—	69	140	69	2	2	12	—	—	5	—
Hand painting, coating and decorating occupations	50	15	32	206	32	9	—	10	—	6	5	7
—	7	7	—	4	—	—	—	—	—	—	—	—
—	56	18	—	11	—	—	—	—	—	—	—	—
—	8	8	147	288	147	14	2	8	8	9	90	11
—	—	—	—	—	—	—	—	—	—	—	—	—
—	478	294	17 574	27 844	5 043	391	213	479	282	1 644	13 854	1 726
—	202	139	2 311	5 826	2 311	282	168	208	122	679	803	502
—	13	8	44	173	44	13	7	35	8	—	22	8
—	4	4	246	412	246	9	9	15	15	228	185	114
—	259	143	14 973	21 433	14 973	87	29	221	143	737	13 023	1 102
—	2 535	210	6 067	305 946	6 067	9 611	232	10 853	399	2 501	2 877	9 810
—	1 934	22	5 043	275 733	5 043	7 905	143	9 140	266	1 836	2 448	8 765
—	40	—	60	3 984	60	7	—	59	—	13	39	9
—	1 093	—	1 567	123 949	1 567	4 150	44	4 607	36	636	811	7 003
—	626	22	2 045	85 751	2 045	3 449	82	3 694	191	814	793	1 435
—	162	—	1 259	59 082	1 259	187	17	573	31	328	777	233
—	13	—	34	242	34	—	—	—	—	45	13	—
—	—	—	78	2 577	78	112	—	193	8	—	15	81
—	—	—	—	142	—	—	—	8	—	—	—	4
—	—	—	13	6	—	—	—	6	—	—	—	—
—	—	—	13	132	13	8	—	13	6	—	—	46
—	—	—	7	22	7	8	—	13	—	—	—	23
—	—	—	6	76	6	—	—	13	6	—	—	23
—	—	—	—	34	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	21	744	21	3	—	13	—	6	—	37
—	—	—	21	266	21	—	—	5	—	—	—	7
—	—	—	21	380	21	—	—	8	—	—	—	15
—	—	—	—	98	—	3	—	—	—	6	—	15
—	—	—	—	—	—	—	—	—	—	—	—	—
—	601	188	990	29 337	990	1 695	89	1 687	127	659	419	962
—	223	165	28	781	28	97	—	78	7	15	2	32
—	24	—	14	218	14	7	—	14	—	—	7	13
—	—	—	—	20	—	—	—	—	—	—	—	—
—	—	—	—	70	—	—	—	3	—	—	—	—
—	19	—	8	398	8	4	—	—	—	18	—	26
—	10	5	4	150	4	—	—	13	—	119	—	26
—	25	—	—	69	—	6	—	—	—	43	—	21
—	239	7	532	24 809	532	1 451	81	1 290	63	446	283	470
—	61	11	404	2 822	404	130	8	281	57	180	126	365

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods											
Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
4 547	1 996	187 421	45 912	8 353	2 157	12 506	5 076	8 207	3 736	94 958	23 923	10 852	651
—	—	225	14	16	—	6	—	8	—	115	—	10	—
5	—	259	8	5	—	3	—	—	—	108	5	23	—
29	—	140	9	14	—	13	—	6	—	18	—	7	—
29	—	135	9	14	—	13	9	3	—	18	—	7	—
—	—	—	—	—	—	—	—	3	—	—	—	—	—
—	—	5	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	7	713	38	14	—	40	—	20	13	202	6	48	2
12	7	1 659	321	66	—	74	—	47	16	914	237	94	12
525	114	51 569	3 860	1 297	155	1 956	400	1 456	456	28 247	1 912	4 519	122
—	—	94	8	—	—	—	—	—	—	21	—	11	—
—	—	186	6	—	—	8	—	5	—	52	6	24	—
223	73	12 664	2 393	465	116	788	327	609	224	7 076	1 170	359	22
23	17	1 505	644	38	19	45	23	191	163	813	325	204	31
279	24	37 120	809	794	20	1 115	50	651	69	20 285	41	3 921	61
—	—	1 631	182	—	—	18	—	—	—	271	25	193	8
6	13	1 773	214	17	—	43	—	25	—	1 248	171	31	—
1 336	821	36 142	22 133	1 676	915	2 646	1 657	2 583	1 436	22 480	14 671	439	137
2 597	1 034	98 310	19 133	5 248	1 087	7 707	2 967	4 062	1 815	41 355	6 979	5 468	370
Employed persons 16 years and over—Con.													
Operators, fabricators, and laborers—Con.													
Handlers, equipment cleaners, helpers, and laborers													
Supervisors, handlers, equipment cleaners, and laborers,													
n.e.c.													
Helpers, mechanics and repairers													
Helpers, construction and extractive occupations													
Helpers, construction trades													
Helpers, surveyor													
Helpers, extractive occupations													
Construction laborers													
Production helpers													
Freight, stock, and material handlers													
Garbage collectors													
Stock handlers and laborers													
Machine feeders and operators													
Freight, stock, and material handlers, n.e.c.													
Garage and service station related occupations													
Vehicle washers and equipment cleaners													
Hand packers and packagers													
Laborers, except construction													

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Wholesale trade, nondurable goods—Con.										Retail trade			
	Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total		Lumber and building material retailing	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	176 395	42 753	116 940	19 936	122 827	27 212	168 012	43 364	202 059	61 726	15 716 694	8 004 399	398 582	88 338
Managerial and professional specialty occupations	38 249	5 864	18 025	2 376	20 926	2 188	31 819	8 839	38 386	8 820	1 951 558	726 777	54 049	9 135
Executive, administrative, and managerial occupations	32 484	4 910	16 932	2 225	19 794	1 988	26 574	5 877	36 476	8 298	1 633 757	577 870	50 945	7 239
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	—	—	8	8	—	—	—	—	—	—	—	—	—	—
Financial managers	1 569	288	662	202	481	105	1 021	337	1 131	349	31 490	12 503	2 039	664
Personnel and labor relations managers	629	99	223	71	392	26	356	79	397	144	39 061	17 284	899	73
Purchasing managers	235	35	83	15	67	6	161	33	126	10	18 168	5 440	596	82
Managers, marketing, advertising, and public relations	3 322	89	4 726	152	3 297	125	4 617	609	6 543	823	186 506	55 172	7 779	666
Administrators, education and related fields	32	6	6	—	—	—	29	—	57	20	823	258	7	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	185	—	—	—	—	—	19	—	6	6	1 784	281	92	7
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	19 363	2 253	9 756	1 356	13 559	2	16 493	5	23 597	5 426	1 155 130	381 669	32 967	4 002
Self-employed	18 160	2 136	9 319	1 323	11 978	999	14 965	3 108	20 797	4 707	946 593	307 068	30 298	3 623
Managers and administrators, n.e.c.	1 203	117	437	176	1 581	176	1 528	427	2 800	719	208 537	74 601	2 669	379
Management related occupations	7 149	2 140	1 468	421	1 996	549	3 873	1 284	4 611	1 520	200 482	105 184	6 550	1 745
Accountants and auditors	4 448	1 531	772	263	889	299	1 302	572	1 568	654	50 403	26 670	2 097	945
Underwriters	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other financial officers	401	125	57	8	70	27	64	28	153	48	3 277	1 281	128	54
Management analysts	309	21	27	13	104	20	133	53	271	59	3 092	1 342	93	25
Personnel, training, and labor relations specialists	865	205	177	16	314	55	338	86	303	107	29 113	15 181	775	137
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	992	202	376	101	579	128	1 952	522	2 224	616	111 530	59 615	3 348	565
Business and promotion agents, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	13	—	28	14	11	11	75	23	12	—	919	401	38	7
Construction inspectors	10	—	12	—	9	9	9	—	20	5	165	37	6	—
Inspectors and compliance officers, except construction	25	—	19	6	12	—	9	—	60	31	806	272	93	—
Management related occupations, n.e.c.	86	56	—	—	8	—	—	—	—	—	525	281	12	12
Professional specialty occupations	5 765	954	1 093	151	1 132	200	5 245	2 942	1 910	522	318 101	148 907	3 124	1 896
Engineers, architects, and surveyors	2 129	58	82	15	207	15	174	31	490	43	8 250	824	327	22
Architects	23	3	—	—	5	—	11	11	6	—	1 532	234	72	5
Engineers	2 101	83	82	—	202	15	163	20	484	43	6 658	567	253	17
Aerospace engineers	20	—	—	—	—	—	6	4	—	—	34	6	—	—
Metallurgical and materials engineers	5	—	—	—	5	—	—	—	9	—	40	—	19	—
Mining engineers	18	—	—	—	—	—	—	—	—	—	46	—	5	—
Petroleum engineers	567	17	—	—	—	—	—	—	—	—	139	—	5	—
Chemical engineers	234	15	—	—	23	—	13	—	8	—	110	10	10	—
Nuclear engineers	—	—	—	—	—	—	—	—	—	—	44	—	—	—
Civil engineers	233	—	—	—	8	—	9	—	23	5	736	40	77	6
Agricultural engineers	—	—	—	—	16	—	—	—	7	—	—	—	—	—
Electrical and electronic engineers	128	8	27	—	10	—	20	—	28	7	—	—	—	—
Industrial engineers	161	15	31	—	66	9	54	16	75	13	971	53	12	—
Mechanical engineers	129	5	6	—	43	—	25	—	70	—	1 329	276	28	2
Marine engineers and naval architects	63	—	—	—	—	—	—	—	—	—	925	11	18	9
Engineers, n.e.c.	543	23	18	—	31	6	32	—	264	25	2 210	164	78	—
Surveyors and mapping scientists	5	—	—	—	—	—	—	—	—	—	20	3	2	—
Mathematical and computer scientists	956	277	62	7	63	23	232	38	105	23	7 932	2 419	75	17
Computer systems analysts and scientists	504	160	44	7	61	23	140	38	55	7	5 336	1 412	53	17
Operations and systems researchers and analysts	359	60	14	—	—	—	87	—	46	12	1 893	484	11	—
Actuaries	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	87	51	4	—	2	—	5	—	4	—	667	511	4	—
Mathematical scientists, n.e.c.	6	6	—	—	—	—	—	—	—	—	18	—	7	—

n of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, nondurable goods—Con.												Retail trade	
Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total		Lumber and building material retailing	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
882	170	26	—	411	35	493	185	49	—	2 458	999	100	—
2	—	—	—	2	—	2	—	2	—	170	17	29	—
229	36	22	—	115	5	53	3	8	—	498	184	—	—
—	—	—	—	—	—	—	—	—	—	269	187	5	—
606	134	—	—	—	—	—	—	20	—	276	56	—	—
31	—	—	—	—	—	—	—	—	—	12	—	4	—
6	—	4	—	278	24	366	168	9	—	906	437	62	—
—	—	—	—	12	—	36	14	—	—	82	47	—	—
8	—	—	—	6	6	36	—	10	—	172	39	—	—
17	—	—	—	—	—	—	—	—	—	73	32	—	—
9	—	11	—	6	—	—	—	2	—	3 730	606	—	—
8	—	—	—	—	—	—	—	2	—	526	79	—	—
—	—	—	—	—	—	—	—	—	—	243	102	—	—
—	—	6	—	6	—	—	—	—	—	233	63	—	—
—	—	5	—	—	—	—	—	—	—	2 513	315	—	—
—	—	—	—	—	—	—	—	—	—	154	19	—	—
—	—	—	—	—	—	—	—	—	—	161	28	—	—
55	46	12	12	40	7	22	7	12	—	106 731	21 622	40	6
36	36	6	6	9	7	15	7	—	—	1 615	1 137	18	6
15	8	—	—	12	—	7	—	12	—	103 284	19 284	15	—
—	—	—	—	19	—	—	—	—	—	1 275	955	5	—
4	2	—	—	—	—	—	—	—	—	447	199	—	—
—	—	6	6	—	—	—	—	—	—	98	47	2	—
14	6	—	—	5	—	11	—	8	—	600	262	—	—
34	13	15	—	94	19	77	63	111	—	14 374	10 352	109	78
—	—	—	—	—	—	8	8	—	—	220	205	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	6	—	2 171	2 023	—	—
34	13	15	—	94	19	69	55	105	13	11 983	8 124	109	78
8	8	—	—	2	—	13	6	2	—	2 295	139	—	—
49	35	—	—	7	—	47	21	5	5	1 591	662	—	—
42	35	—	—	7	—	36	21	5	5	581	437	—	—
7	—	—	—	—	—	11	—	—	—	1 010	225	—	—
657	101	211	36	87	50	147	50	373	87	3 798	1 522	50	2
657	101	211	36	75	44	137	40	384	87	3 518	1 434	34	2
—	—	—	—	—	—	—	—	—	—	100	34	8	—
—	—	—	—	6	6	6	6	9	—	90	40	8	—
—	—	—	—	6	6	—	—	—	—	19	—	—	—
22	10	5	—	15	—	5	1	19	—	1 292	785	9	—
17	5	5	—	8	—	1	1	13	—	830	585	—	—
5	5	—	—	7	—	4	—	6	—	156	69	—	—
—	—	—	—	—	—	—	—	—	—	125	7	—	—
—	—	—	—	—	—	—	—	—	—	181	124	9	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
398	13	29	—	18	—	32	—	24	7	1 787	371	12	—
398	13	29	—	18	—	32	—	24	7	1 787	371	12	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
544	187	640	96	177	51	3 992	2 560	710	336	165 273	108 344	2 402	1 771
—	—	—	—	4	4	11	6	4	—	265	159	—	—
—	—	—	—	—	—	—	—	—	—	265	159	—	—
26	13	—	—	32	14	32	14	9	4	121 478	88 449	10	6
124	43	274	23	44	17	2 755	1 940	376	141	11 811	1 985	1 937	1 526
5	—	—	—	—	—	39	18	—	—	—	—	—	—
5	—	—	—	—	—	—	—	14	7	554	243	—	—
48	12	43	13	—	—	468	279	82	74	7 378	4 765	249	138
—	—	—	—	—	—	63	24	6	—	2 154	837	11	—
—	—	—	—	—	—	—	—	—	—	2 588	2 387	—	—
13	—	6	—	—	—	64	52	7	—	4 626	1 937	8	5
48	37	—	—	37	19	304	191	67	54	5 222	3 329	77	51
268	82	311	60	92	11	249	36	143	47	2 423	3 379	97	45
—	—	—	—	—	—	7	—	2	—	2 623	378	13	—
7	—	—	—	—	—	—	—	—	—	237	28	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

United States

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations	66 023	34 939	47 131	15 950	55 659	22 357	83 018	40 174	132 659	45 852	7 351 446	4 662 886	197 012	74 499
Technicians and related support occupations	2 905	599	357	107	1 078	356	1 064	378	615	113	38 272	14 062	1 143	213
Health technologists and technicians	54	—	9	—	3	8	24	16	6	—	2 374	1 681	—	—
Clinical laboratory technologists and technicians	14	—	—	—	—	3	—	—	—	—	30	20	—	—
Dental hygienists	—	—	—	—	—	—	—	—	—	—	45	35	—	—
Health record technologists and technicians	—	—	—	—	—	—	—	—	—	—	40	25	—	—
Radiologic technicians	—	—	9	—	—	—	7	7	—	—	321	289	—	—
Licensed practical nurses	—	—	—	—	5	5	8	9	6	6	1 714	1 175	—	—
Health technologists and technicians, n.e.c.	40	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and related technologists and technicians	1 052	151	128	20	227	64	279	98	324	24	10 495	1 787	755	138
Electrical and electronic technicians	172	—	25	—	25	15	84	5	109	—	5 206	509	56	19
Industrial engineering technicians	—	—	18	7	7	—	—	—	21	—	333	32	—	—
Mechanical engineering technicians	11	—	—	—	—	—	10	—	—	—	136	13	10	—
Engineering technicians, n.e.c.	480	70	38	13	146	48	128	74	75	18	1 595	415	162	7
Drafting occupations	330	81	38	—	46	8	40	—	103	6	3 045	762	527	112
Surveying and mapping technicians	59	—	—	—	1	—	17	11	16	—	180	56	—	—
Science technicians	191	20	15	2	353	146	179	38	50	24	1 211	556	77	5
Biological technicians	6	—	4	—	296	119	110	31	19	12	310	129	12	—
Chemical technicians	93	12	8	2	22	7	45	2	—	—	302	138	52	5
Science technicians, n.e.c.	92	8	3	—	35	20	24	5	31	12	599	289	13	—
Technicians, except health, engineering, and science	1 608	428	205	85	485	138	582	226	235	59	24 162	10 088	306	70
Aircraft pilots and navigators	231	—	14	—	27	—	27	—	5	—	716	24	21	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	37	4	—	—	—	—	11	5	7	—	571	118	10	6
Computer programmers	728	228	146	65	219	62	278	100	85	30	10 052	3 374	195	51
Tool programmers, numerical control	18	6	—	—	6	6	8	—	2	—	307	74	8	—
Legal assistants	193	119	11	11	9	2	34	29	6	6	5 763	5 091	16	—
Technicians, n.e.c.	401	71	34	9	224	68	224	92	130	23	6 753	1 407	56	13
Sales occupations	19 103	1 570	28 946	2 109	32 187	4 749	40 173	8 630	91 977	14 820	5 779 029	3 448 133	131 976	26 093
Supervisors and proprietors, sales occupations	5 883	318	3 529	235	8 129	856	7 068	1 221	8 459	1 570	242 920	385 683	31 562	3 149
Sales representatives, sales occupations	4 197	243	3 017	175	5 231	431	4 612	728	5 003	759	859 138	269 314	24 711	2 294
Sales	1 686	75	512	60	2 898	425	2 456	493	3 456	775	383 782	116 369	6 851	855
Self-employed	233	23	88	—	43	21	258	86	146	34	7 795	4 076	243	83
Sales representatives, finance and business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Insurance sales occupations	—	16	10	—	12	12	7	—	61	15	3 250	1 350	124	12
Real estate sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Securities and financial services sales occupations	—	7	78	—	31	9	251	86	85	19	4 545	2 726	119	71
Advertising and related sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	11 954	724	24 334	1 293	22 470	2 932	30 275	6 037	80 855	11 740	1 512	104	245	30
Sales engineers	345	—	17	—	43	5	134	6	2 107	21	1 512	104	245	30
Sales representatives, mining, manufacturing, and wholesale	11 409	724	24 317	1 293	22 427	2 927	30 141	6 037	78 748	11 719	—	—	—	—
Sales workers, retail and personal services	1 017	495	988	581	1 530	938	2 544	1 270	2 412	1 423	4 516 081	3 050 432	99 840	22 784
Sales workers, commodities	113	12	34	—	274	21	95	14	325	19	2 875 544	1 685 405	91 676	15 642
Sales counter clerks	16	—	6	—	29	6	20	7	94	16	22 880	15 631	143	38
Cashiers	832	477	914	572	1 151	874	877	730	1 216	1 052	1 449 531	1 216 385	7 308	6 706
Street and door-to-door sales workers	42	6	26	6	59	31	620	331	687	321	152 844	127 473	646	378
News vendors	12	—	8	3	17	6	932	188	90	15	15 282	5 538	67	20
Sales related occupations	16	10	7	—	15	2	28	16	105	53	10 721	7 838	86	47
Demonstrators, promoters and models, sales	—	—	—	—	5	5	10	10	80	52	5 264	4 688	22	16
Auctioneers	—	—	—	—	10	2	12	—	25	1	1 842	375	6	6
Sales support occupations, n.e.c.	16	10	7	—	—	—	6	6	3 615	2	3 615	2 775	58	25
Administrative support occupations, including clerical	44 015	32 770	17 828	13 734	22 394	17 252	41 781	31 166	40 067	30 919	1 534 175	1 200 491	63 893	48 183
Supervisors, administrative support occupations	2 301	818	1 029	531	873	303	2 735	1 864	2 089	1 137	84 715	51 581	2 702	1 000
Supervisors, general office	1 068	503	596	349	524	214	1 687	941	1 528	956	60 012	39 136	1 627	715
Supervisors, computer equipment operators	147	23	74	54	40	11	83	71	42	22	1 524	462	27	12
Supervisors, financial records processing	801	255	232	118	146	43	330	219	199	121	292	8 199	531	252
Supervisors, financial operators	14	—	7	—	—	—	8	—	—	—	292	2	2	—
Chief communications operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks	270	37	120	10	163	35	627	133	320	38	9 595	2 906	515	21
Supervisors, equipment operators	1 671	1 040	1 441	1 208	513	329	1 351	1 005	646	646	26 140	17 626	1 039	813
Computer equipment operators	1 616	999	1 352	1 142	506	329	1 254	97	565	565	24 680	16 833	1 041	796
Computer operators	54	41	89	66	7	—	93	56	93	81	1 466	993	18	17
Peripheral equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Wholesale trade, nondurable goods—Con.						Retail trade					
	Alcoholic beverages			Farm supplies			Miscellaneous wholesale, nondurable goods			Not specified wholesale trade		
	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Female
Petroleum products	12 011	11 810	4 249	5 414	5 355	8 493	8 342	13 892	225 942	221 899	13 455	13 196
	11 116	10 937	3 893	5 119	5 076	7 246	7 148	12 650	198 577	195 464	12 701	12 468
	168	163	13	19	19	46	46	112	1 069	940	47	47
	727	710	343	276	260	1 201	1 148	1 203	26 296	25 495	707	681
Information clerks	1 087	957	575	306	248	1 059	952	857	47 767	44 639	1 576	1 394
	303	251	84	35	8	111	74	88	14 543	13 226	228	202
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	23	9	11	9	—	8	—	13	1 012	734	22	14
Receptionists	647	619	408	195	188	762	749	643	25 455	24 692	1 027	959
Information clerks, n.e.c.	114	78	72	67	52	178	152	113	6 757	5 987	299	219
Records processing occupations, except financial	1 305	946	1 163	961	564	3 460	2 560	1 397	96 603	73 038	2 225	1 038
Classified-ad clerks	6	18	29	—	—	48	48	35	2 439	2 238	9	30
Order clerks	533	302	965	785	406	1 022	84	5	2 439	2 238	9	30
Personnel clerks, except payroll and timekeeping	83	67	7	4	—	2 502	1 698	952	71 019	50 174	1 657	568
Library clerks	19	12	7	4	—	36	34	32	4 367	4 207	51	45
File clerks	572	494	162	147	136	528	489	336	12 962	11 847	390	360
Records clerks	74	53	—	25	22	190	168	37	3 073	2 572	44	35
Financial records processing occupations	12 257	10 488	4 048	8 341	7 562	8 642	7 841	6 292	436 006	405 717	25 817	23 431
Bookkeepers, accounting, and auditing clerks	11 272	9 456	3 691	7 945	7 193	7 373	6 718	5 657	392 232	367 588	24 193	22 974
Payroll and timekeeping clerks	283	231	143	81	81	220	206	113	13 707	13 025	379	372
Billing clerks	510	471	143	254	240	800	706	347	15 176	14 034	760	656
Cost and rate clerks	111	71	31	16	16	216	192	147	12 425	9 043	381	214
Billing, posting, and calculating machine operators	91	70	30	16	16	33	19	28	2 466	2 007	104	95
Duplicating, mail, and other office machine operators	62	50	7	21	14	63	47	11	3 001	2 171	24	13
Duplicating machine operators	10	5	—	6	6	12	12	3	599	375	5	—
Mail preparing and paper handling machine operators	—	—	—	—	—	—	—	—	844	536	—	—
Office machine operators, n.e.c.	52	45	7	15	8	37	26	8	1 558	1 260	19	13
Communications equipment operators	133	121	135	55	48	182	182	62	17 233	16 767	329	324
Telephone operators	120	113	135	50	48	182	182	62	17 066	16 696	324	324
Telegraphers	13	8	—	5	—	—	—	—	54	30	5	—
Communications equipment operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Mail and message distributing occupations	526	205	181	192	60	746	318	69	22 140	9 944	438	102
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, except postal service	436	177	104	139	54	555	266	47	15 756	8 633	284	52
Mail clerks, except postal service	90	28	77	53	6	191	52	22	6 384	1 311	154	50
Messengers	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	3 980	831	2 122	2 012	556	7 933	2 666	1 793	292 514	124 813	8 737	1 546
Production clerks	1 705	263	108	93	25	126	20	26	7 223	2 105	835	111
Production clerks, n.e.c.	614	172	206	155	58	411	238	146	21 039	13 165	489	131
Traffic, shipping, and receiving clerks	464	64	619	576	99	3 487	744	588	77 472	27 444	2 577	355
Stock and inventory clerks	818	231	969	936	278	3 089	1 168	728	139 146	45 139	3 282	682
Meat packers	—	—	—	—	—	—	—	—	—	—	—	—
Weights, measurers, and checkers	186	37	174	189	67	526	283	80	6 835	3 703	792	97
Samplers	55	8	—	—	—	15	13	—	312	182	6	144
Expeditors	103	44	37	33	13	236	172	175	23 849	18 232	676	—
Material recording, scheduling, and distributing clerks, n.e.c.	35	12	9	30	16	43	28	50	16 638	14 842	80	26
Adjusters and investigators	767	375	215	429	90	686	462	231	37 423	27 249	489	168
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	528	262	154	399	63	472	291	176	23 723	16 933	310	74
Eligibility clerks, social welfare	6	—	22	—	—	—	—	—	7	53	22	14
Bill and account collectors	233	113	39	30	27	214	171	46	13 376	9 763	157	80
Miscellaneous administrative support occupations	7 916	5 129	2 663	3 277	2 123	6 431	5 427	4 532	244 671	205 147	7 042	4 968
General office clerks	5 095	3 596	2 003	2 726	1 693	4 645	3 916	3 710	191 708	161 891	6 054	4 232
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—
Producers	—	—	—	8	8	58	52	—	666	571	9	9
Date-entry keyers	1 700	954	499	354	333	1 102	1 048	483	28 731	26 616	515	481
Statistical clerks	425	282	93	31	22	230	195	10	7 147	6 147	125	—
Teachers' aides	—	—	—	149	58	391	215	238	15 591	9 348	315	119
Administrative support occupations, n.e.c.	696	297	48	—	—	—	—	—	—	—	—	—

United States

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
Administrative support occupations, including clerical—Con.

Secretaries, stenographers, and typists

Information clerks

Hotel clerks

Transportation ticket and reservation agents

Receptionists

Information clerks, n.e.c.

Records processing occupations, except financial

Classified-ad clerks

Order clerks

Personnel clerks, except payroll and timekeeping

Library clerks

File clerks

Records clerks

Financial records processing occupations

Bookkeepers, accounting, and auditing clerks

Payroll and timekeeping clerks

Billing clerks

Cost and rate clerks

Billing, posting, and calculating machine operators

Duplicating, mail, and other office machine operators

Duplicating machine operators

Mail preparing and paper handling machine operators

Office machine operators, n.e.c.

Communications equipment operators

Telephone operators

Telegraphers

Communications equipment operators, n.e.c.

Mail and message distributing occupations

Postal clerks, except mail carriers

Mail carriers, except postal service

Mail clerks, except postal service

Messengers

Material recording, scheduling, and distributing clerks

Production clerks

Production clerks, n.e.c.

Traffic, shipping, and receiving clerks

Stock and inventory clerks

Meat packers

Weights, measurers, and checkers

Samplers

Expeditors

Material recording, scheduling, and distributing clerks, n.e.c.

Adjusters and investigators

Insurance adjusters, examiners, and investigators

Investigators and adjusters, except insurance

Eligibility clerks, social welfare

Bill and account collectors

Miscellaneous administrative support occupations

General office clerks

Bank tellers

Producers

Date-entry keyers

Statistical clerks

Teachers' aides

Administrative support occupations, n.e.c.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																				
Wholesale trade, nondurable goods—Con.						Retail trade														
Petroleum products			Alcoholic beverages			Farm supplies			Miscellaneous wholesale, nondurable goods			Not specified wholesale trade			Total			Lumber and building material retailing		
Total	Female		Total	Female		Total	Female		Total	Female		Total	Female		Total	Female		Total	Female	
Employed persons 16 years and over—Con.																				
Service occupations	2 741	470	1 262	223	1 828	305	2 300	539	1 700	602	2 112 576	4 943	1 023							
Private household occupations	326	19	205	7	132	1	287	11	245	56	44 978	1 039	39							
Protective service occupations	29	—	7	—	—	—	4	—	5	—	2 427	29	—							
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	68	6	—							
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—							
Supervisors, police and detectives	29	—	7	—	—	—	4	—	5	—	2 359	23	—							
Supervisors, guards	12	—	—	—	—	—	3	—	—	—	140	8	—							
Firefighting and fire prevention occupations	12	—	—	—	—	—	3	—	—	—	80	8	—							
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	60	—	—							
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—							
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—							
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—							
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—							
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—							
Guards	285	19	198	—	132	1	280	11	240	56	42 411	1 002	39							
Crossing guards	—	—	—	—	—	—	—	—	—	—	—	—	—							
Guards and police, except public service	285	19	198	—	129	1	280	11	240	56	42 113	1 002	39							
Protective service occupations, n.e.c.	—	—	—	—	3	—	—	—	—	—	276	—	—							
Service occupations, except protective and household	2 415	451	1 057	223	1 696	304	2 013	528	1 455	546	3 421 772	3 904	984							
Food preparation and service occupations	167	37	165	78	175	46	180	130	208	133	3 177 197	166	63							
Supervisors, food preparation and service occupations	33	12	65	12	12	—	19	5	9	—	2 013 082	12	—							
Waiters and waitresses	14	—	35	35	6	—	8	6	42	—	155 341	13	—							
Cooks, except short order	89	10	11	11	26	19	70	65	53	45	1 198 177	34	21							
Short-order cooks	—	—	—	—	—	—	—	—	—	—	803 023	35	22							
Food counter, luncheon and related occupations	—	—	24	12	10	—	30	18	19	12	66 412	—	—							
Kitchen workers, food preparation	—	—	—	—	—	—	—	—	—	—	24 351	—	—							
Waiters and waitresses' assistants	6	—	3	3	—	—	7	12	12	11	171 762	38	9							
Miscellaneous food preparation occupations	25	15	27	5	21	21	30	24	18	23	63 449	—	—							
Health service occupations	6	—	—	—	18	10	29	24	28	28	166 099	34	5							
Dental assistants	—	—	—	—	—	—	—	—	—	—	316 605	15	8							
Health aides, except nursing	6	—	—	—	—	—	—	—	—	—	18 681	—	—							
Nursing aides, orderlies, and attendants	—	—	—	—	18	10	29	24	28	28	17 291	—	—							
Cleaning and building service occupations, except household	2 187	395	843	131	1 570	236	1 432	238	1 091	293	192 484	15	8							
Supervisors, cleaning and building service workers	76	—	50	22	18	15	74	40	96	72	5 586	3 616	890							
Maid and housemen	108	54	790	109	1 296	221	1 261	198	983	221	25 415	44	173							
Janitors and cleaners	1 977	335	3	—	87	—	9	—	6	—	161 882	307	717							
Elevator operators	20	6	—	—	—	—	—	—	—	—	533	13	—							
Pest control occupations	6	—	—	—	78	—	11	—	—	—	68	—	—							
Personal service occupations	55	19	49	14	30	12	372	136	128	92	33 410	107	23							
Supervisors, personal service occupations	—	—	—	—	11	—	—	—	12	—	522	7	—							
Barbers	—	—	—	—	2	—	—	—	—	—	286	4	—							
Hairdressers and cosmetologists	—	—	5	—	4	—	15	15	5	5	8 630	13	—							
Attendants, amusement and recreation facilities	—	—	19	2	6	6	—	—	6	6	7 807	5	—							
Guides	8	—	—	—	—	—	6	—	—	—	1 124	7	—							
Ushers	—	—	—	—	—	—	—	—	—	—	341	5	—							
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	123	—	—							
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	117	—	—							
Welfare service aides	—	—	—	—	—	—	—	—	—	—	32	—	—							
Child care workers, except private household	—	—	2	—	7	6	321	117	23	23	1 848	32	6							
Personal service occupations, n.e.c.	39	19	23	12	—	—	30	4	82	58	20 399	46	10							
Farming, forestry, and fishing occupations	54	—	35	8	181	38	3 725	1 672	27	15	14 641	1 024	16							
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—							
Farm occupations, except managerial	—	—	—	—	29	13	1 664	984	8	8	4 079	10	8							
Related agricultural occupations	47	—	29	8	131	25	1 741	659	15	7	8 941	284	6							
Supervisors, related agricultural occupations	—	—	—	—	9	—	35	8	—	—	114	—	—							
Groundskeepers and gardeners, except farm	39	—	14	8	64	8	1 645	634	15	7	5 993	243	6							
Animal caretakers, except farm	8	—	15	—	56	17	61	17	—	—	2 783	23	—							
Grocers and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—							
Inspectors, agricultural products	—	—	—	—	2	—	—	—	—	—	51	18	—							

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Wholesale trade, nondurable goods—Con.										Retail trade	
	Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.												
Forestry and logging occupations	—	—	6	—	14	—	292	16	—	—	1 150	64
Supervisors, forestry and logging workers	—	—	—	—	—	—	13	—	—	—	46	7
Forestry workers, except logging	—	—	6	—	12	—	34	8	—	—	185	33
Timber cutting and logging occupations	—	—	—	—	—	—	245	—	—	—	919	24
Fishers, hunters, and trappers	7	—	—	—	7	—	28	13	4	—	471	34
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—	—	—	41	—
Fishers	7	—	—	—	5	—	28	13	—	—	390	26
Hunters and trappers	—	—	—	—	2	—	—	—	—	—	40	8
Precision production, craft, and repair occupations	18 608	526	5 415	300	7 489	262	8 310	1 642	7 106	1 098	1 265 536	165 212
Mechanics, mechanics and repairers	8 235	46	1 342	23	3 065	17	1 251	91	2 241	152	619 544	10 670
Supervisors, mechanics and repairers	319	9	81	—	153	5	86	6	89	7	40 027	73
Mechanics and repairers, except supervisors	7 916	59	1 261	23	2 912	12	1 165	85	2 152	145	579 517	9 381
Vehicle and mobile equipment mechanics and repairers	2 111	7	740	6	1 436	6	275	8	917	7	422 129	3 990
Automobile mechanics	1 364	7	583	7	1 210	6	168	8	720	—	344 219	3 194
Bus, truck, and stationary engine mechanics	511	—	110	—	210	—	45	—	25	—	6 199	6
Aircraft engine mechanics	76	—	—	—	—	—	—	—	—	—	1 367	12
Small engine mechanics	14	—	—	—	98	—	—	—	—	—	15 631	219
Automobile body and related repairers	54	—	12	—	33	—	14	—	129	6	51 516	494
Aircraft mechanics, except engine	18	—	—	—	—	—	7	—	—	—	51 78	—
Heavy equipment mechanics	57	—	24	—	81	—	21	—	36	1	2 197	65
Farm equipment mechanics	17	—	11	—	486	6	20	—	7	—	922	—
Industrial machinery repairers	1 126	2	160	6	392	—	245	21	203	25	12 456	378
Machinery maintenance occupations	671	22	15	5	5	—	—	—	20	8	869	9
Electrical and electronic equipment repairers	257	6	36	—	119	6	73	8	121	33	64 294	1 559
Electronic repairers, communications and industrial equipment	74	—	—	—	—	—	—	—	—	—	—	—
Data processing equipment repairers	40	—	8	—	12	—	—	—	23	9	28 637	365
Household appliance and power tool repairers	62	—	14	—	83	—	34	—	18	12	2 119	165
Telephone line installers and repairers	2	—	—	—	—	—	—	—	30	—	31 353	809
Telephone installers and repairers	31	6	2	—	4	—	—	—	36	12	46	—
Miscellaneous electrical and electronic equipment repairers	48	—	10	—	14	—	15	—	14	—	759	146
Heating, air conditioning, and refrigeration mechanics	1 746	9	24	—	92	—	24	—	—	—	1 380	64
Miscellaneous mechanics and repairers	2 005	13	286	5	868	—	548	48	27	—	15 463	133
Camera, watch, and musical instrument repairers	19	—	—	—	13	—	10	—	864	72	6 208	3 312
Locksmiths and safe repairers	7	—	9	—	—	—	—	—	24	—	9 649	683
Office machine repairers	2	—	2	—	10	—	15	—	3	—	5 592	48
Mechanical controls and valve repairers	100	—	—	—	7	—	5	—	18	—	732	35
Elevator installers and repairers	42	—	—	—	—	—	—	—	—	—	367	18
Millwrights	31	—	5	—	123	—	12	—	270	32	979	33
Specified mechanics and repairers, n.e.c.	913	13	80	5	279	—	175	38	207	7	32 567	1 578
Not specified mechanics and repairers	891	—	190	—	427	—	331	—	342	33	14 025	611
Construction trades												
Supervisors, construction occupations	1 565	10	254	23	579	21	924	47	494	40	112 287	3 000
Supervisors, brickmasons, stonemasons, and tile setters	263	—	26	—	64	—	50	—	37	—	3 850	144
Supervisors, carpenters and related workers	—	—	—	—	—	—	—	—	—	—	65	5
Supervisors, electricians and power transmission installers	39	—	—	—	2	—	6	—	—	—	287	10
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	7	—	—	—	6	—	251	14
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	15	—	—	—	29	—
Supervisors, n.e.c.	224	—	26	—	55	—	29	—	31	—	34	—
Construction trades, except supervisors	1 302	10	228	23	515	16	874	47	457	40	108 437	2 856
Brickmasons and stonemasons	14	—	9	—	15	—	29	—	9	—	1 073	27
Tile setters, hard and soft	—	—	—	—	—	—	19	—	—	—	2 835	11
Carpet installers	—	—	—	—	2	—	184	—	136	14	38 941	472
Carpenters	182	—	74	13	166	—	—	—	—	—	23 621	8 440
Drywall installers	—	—	10	—	—	—	—	—	—	—	207	—
Electricians	303	6	38	—	132	14	37	—	86	8	6 542	139
Electrical power installers and repairers	11	—	5	—	2	—	2	—	—	—	6 542	—
Painters, construction and maintenance	81	—	38	10	91	2	460	47	108	18	7 357	33
Paperhangers	6	—	—	—	2	—	34	—	—	—	7 512	799
											2 504	122
											298	45

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Wholesale trade, nondurable goods—Con.				Retail trade			
	Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods	
	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.								
Precision production, craft, and repair occupations—Con.								
Construction trades—Con.								
Construction trades, except supervisors—Con.								
Plumbers, pipefitters, and steamfitters	552	4	12	—	70	—	20	—
Concrete and terrazzo finishers	3	—	—	—	—	—	7	—
Glaziers	—	—	—	—	—	—	45	—
Insulation workers	42	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	—	—	—	—	—	—	—	—
Roofers	19	—	—	—	16	—	8	—
Sheetmetal duct installers	14	—	—	—	2	—	3	—
Structural metal workers	16	—	—	—	17	—	26	—
Drillers, earth	59	—	42	—	16	—	4	—
Construction trades, n.e.c.	287	—	—	—	—	—	—	—
Supervisors, extractive occupations	83	—	—	—	—	—	—	—
Drillers, oil well	89	—	—	—	16	—	4	—
Explosives workers	3	—	—	—	—	—	—	—
Mining machine operators	13	—	—	—	—	—	—	—
Mining occupations, n.e.c.	89	—	—	—	—	—	—	—
Precision production occupations	8 521	448	3 819	254	3 829	—	6 131	1 504
Supervisors, production occupations	6 508	401	3 648	248	3 430	—	5 434	1 236
Precision metalworking occupations	329	—	108	—	102	—	241	44
Tool and die makers	3	—	7	—	2	—	8	—
Precision assemblers, metal	11	—	101	—	84	—	111	24
Mechanists	206	—	—	—	—	—	17	—
Boilermakers	60	—	—	—	—	—	2	—
Precision grinders, filers, and tool sharpeners	—	—	—	—	—	—	4	—
Patternmakers and model makers, metal	—	—	—	—	—	—	17	—
Lay-out workers	—	—	—	—	2	—	4	—
Precious stones and metals workers (jewelers)	—	—	—	—	—	—	16	—
Engravers, metal	49	—	—	—	8	—	21	—
Sheet metal workers	—	—	—	—	—	—	—	—
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—
Precision woodworking occupations	1	—	—	—	6	—	30	—
Patternmakers and model makers, wood	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	—	—	—	—	6	—	11	—
Furniture and wood finishers	—	—	—	—	—	—	19	—
Miscellaneous precision woodworkers	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	20	20	6	6	77	—	214	154
Dressmakers	20	—	6	—	72	—	158	127
Tailors	—	—	—	—	—	—	5	—
Upholsterers	—	—	—	—	5	—	8	—
Shoe repairers	—	—	—	—	—	—	31	20
Apparel and fabric patternmakers	—	—	—	—	—	—	12	7
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	—	—
Precision workers, assorted materials	85	5	12	—	39	—	92	47
Hand molders and shapers, except jewelers	—	—	—	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	—	—	—	—	7	—	15	2
Optical goods workers	—	—	—	—	—	—	3	—
Dental laboratory and medical appliance technicians	—	—	—	—	—	—	64	42
Bookbinders	6	—	—	—	—	—	10	—
Electrical and electronic equipment assemblers	79	5	12	—	25	—	10	—
Miscellaneous precision workers, n.e.c.	—	—	—	—	—	—	—	—
Precision food production occupations	72	—	10	—	60	—	52	14
Butchers and meat cutters	72	—	10	—	41	—	31	7
Bakers	—	—	—	—	8	—	13	7
Food batchmakers	—	—	—	—	11	—	8	—
Food inspectors, testers, and related workers	52	6	—	—	6	—	5	5
Inspectors, testers, and graders	52	—	—	—	6	—	5	—
Adjusters and calibrators	—	—	—	—	—	—	—	—
Not specified wholesale trade								
Lumber and building material retailing								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Wholesale trade, nondurable goods—Con.										Retail trade	
	Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total		Lumber and building material retailing	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Petroleum products												
Total	1 454	16	109	—	63	4	60	—	3 384	147	94	2
Precision production, craft, and repair occupations—Con.	16	—	7	—	4	—	7	—	93	9	—	—
Precision production occupations—Con.	708	6	21	—	30	4	47	—	2 589	11	35	2
Power plant operators	730	10	81	—	29	—	6	—	619	49	59	—
Stationary engineers	50 720	954	36 744	2 062	38 840	10 498	22 181	5 339	1 665 463	331 262	93 002	2 448
Machine operators, assemblers, and inspectors	3 337	224	6 657	472	5 000	3 091	6 514	3 065	149 258	58 867	15 460	1 004
Machine operators and tenders, except precision	2 357	149	5 406	343	4 321	1 705	4 359	1 919	96 360	38 535	11 493	595
Metalworking and plastic working machine operators	27	—	270	13	74	24	181	35	3 008	590	458	21
Lumber and wood machine operators	—	—	5	—	13	8	23	—	272	53	89	7
Lumber and wood machine operators	—	—	30	—	29	11	9	—	84	7	40	7
Punching and stamping press machine operators	—	—	4	—	—	—	50	19	431	162	68	—
Rolling machine operators	8	—	—	—	—	—	14	—	26	14	—	—
Drilling and boring machine operators	12	—	3	—	—	—	6	—	150	15	17	—
Grinding, abrading, buffing, and polishing machine operators	7	—	226	11	28	5	74	16	1 768	289	216	7
Forging machine operators	—	—	—	—	—	—	4	—	76	6	16	—
Numerical control machine operators	—	—	—	—	—	—	—	—	7	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	2	—	4	—	15	—	141	44	5	—
Fabricating machine operators, D.B.C.	20	—	—	—	5	2	8	2	272	112	56	—
Metal and plastic processing machine operators	46	—	22	8	92	16	141	45	1 662	616	102	25
Molding and casting machine operators	27	—	20	8	80	16	118	40	1 305	532	78	20
Metal finishing machine operators	8	—	—	—	6	—	22	5	217	57	16	—
Heat treating equipment operators	—	—	—	—	—	—	1	—	75	27	—	—
Miscellaneous metal and plastic processing machine operators	3	—	2	—	6	—	—	—	65	—	8	—
Woodworking machine operators	10	—	48	—	164	—	55	10	4 209	275	2 813	65
Wood lathe, routing, and planing machine operators	—	—	—	—	109	—	47	—	81	116	65	—
Sawing machine operators	10	—	14	—	—	—	—	—	2 687	27	2 263	50
Shaping and joining machine operators	—	—	6	—	7	—	—	—	181	12	8	—
Nailing and lacing machine operators	—	—	28	—	48	—	8	—	1 245	124	382	9
Miscellaneous woodworking machine operators	131	14	61	16	351	149	118	43	6 465	2 675	109	11
Printing machine operators	96	8	43	6	198	55	109	41	4 886	1 719	99	—
Photographers and lithographers	20	6	10	10	40	30	9	2	271	79	—	—
Typesetters and compositors	6	—	—	—	74	34	—	—	989	729	—	—
Miscellaneous printing machine operators	9	—	8	—	39	30	—	—	319	148	10	—
Textile, apparel, and furnishings machine operators	19	10	72	19	183	169	621	490	13 570	10 944	282	27
Textile, apparel, and furnishings machine operators	—	—	—	—	56	56	44	31	67	53	—	—
Winding and twisting machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Knitting, looping, taping, and weaving machine operators	9	—	—	—	—	—	55	44	245	220	6	—
Textile cutting machine operators	—	—	—	—	—	—	8	—	73	14	—	—
Textile sewing machine operators	4	4	40	17	99	86	405	350	9 034	8 159	208	24
Shoe machine operators	—	—	—	—	—	—	37	30	382	210	25	3
Pressing machine operators	—	—	—	—	8	8	30	4	1 296	715	2	—
Laundry and dry cleaning machine operators	—	—	—	—	5	5	4	4	1 889	1 364	13	—
Miscellaneous textile machine operators	6	6	32	2	15	14	38	31	584	209	28	—
Machine operators, assorted materials	2 104	125	4 933	292	3 452	1 345	3 235	1 294	67 174	23 323	7 673	446
Cementing and gluing machine operators	180	11	69	37	104	40	65	10	1 467	958	115	4
Packaging and filling machine operators	4	—	77	—	22	22	21	35	1 803	213	19	10
Extruding and forming machine operators	170	6	944	11	308	37	19	12	2 104	509	7	—
Mixing and blending machine operators	108	—	548	38	120	22	17	25	337	113	468	60
Separating, filtering, and clarifying machine operators	9	—	45	16	22	26	51	12	498	160	22	8
Compressing and compacting machine operators	17	—	30	—	117	12	123	36	11 648	555	830	13
Painting and painting machine operators	—	—	2	—	—	—	—	—	109	23	—	—
Roasting and baking machine operators, food	—	—	—	—	—	—	—	—	126	6	7	—
Washing, cleaning, and picking machine operators	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Wholesale trade, nondurable goods—Con.														
Retail trade														
Petroleum products	Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total		Lumber and building material retailing			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con.														
Operators, fabricators, and laborers—Con.														
Machine operators, assemblers, and inspectors—Con.														
Machine operators and tenders, except precision—Con.														
Machine operators, assorted materials—Con.														
Folding machine operators														
Furnace, kiln, and oven operators														
Crushing and grinding machine operators														
Slicing and cutting machine operators														
Motion picture projectionists														
Photographic process machine operators														
Miscellaneous machine operators, n.e.c.														
Machine operators, not specified														
Fabricators, assemblers, and hand working occupations														
Welders and cutters														
Soldiers and brazers														
Assemblers														
Hand cutting and trimming occupations														
Hand molding, casting, and forming occupations														
Hand painting, coating and decorating occupations														
Hand engraving and printing occupations														
Hand grinding and polishing occupations														
Miscellaneous hand working occupations														
Production inspectors, testers, samplers, and weighers														
Production inspectors, checkers, and examiners														
Production testers														
Production samplers and weighers														
Graders and sorters, except agricultural														
Transportation and material moving occupations														
Motor vehicle operators														
Supervisors, motor vehicle operators														
Truck drivers, heavy														
Truck drivers, light														
Driver-sales workers														
Bus drivers														
Taxicab drivers and chauffeurs														
Parking lot attendants														
Motor transportation occupations, n.e.c.														
Rail transportation occupations														
Railroad conductors and yardmasters														
Locomotive operating occupations														
Railroad track, signal, and switch operators														
Rail vehicle operators, n.e.c.														
Water transportation occupations														
Ship captains and mates, except fishing boats														
Sailors and deckhands														
Marine engineers														
Bridge, lock, and lighthouse tenders														
Material moving equipment operators														
Supervisors, material moving equipment operators														
Operating engineers														
Longshore equipment operators														
Hoist and winch operators														
Crane and tower operators														
Excavating and loading machine operators														
Grader, dozer, and scraper operators														
Industrial truck and tractor equipment operators														
Miscellaneous material moving equipment operators														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, nondurable goods—Con.														
	Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total		Retail trade	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Operators, fabricators, and laborers—Con.														
Handers, equipment cleaners, helpers, and laborers	5 713	394	9 103	392	12 345	1 188	17 257	6 372	8 127	2 023	1 161 592	245 988	30 803	1 047
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	21	—	—	—	16	8	25	6	8	—	560	217	41	—
Helpers, mechanics and painters	46	—	14	—	31	—	11	—	18	—	3 331	175	27	—
Helpers, construction and extractive occupations	10	—	—	—	9	—	31	—	32	—	1 582	94	468	10
Helpers, construction trades	8	—	—	—	9	—	31	—	32	—	1 560	74	468	10
Helpers, surveyor	2	—	—	—	—	—	—	—	—	—	22	20	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	125	—	—	—	51	—	130	17	63	—	2 832	144	782	15
Production laborers	107	—	91	—	143	26	56	9	67	—	10 766	3 583	182	10
Freight, stock, and material handlers	1 137	76	3 733	69	4 680	83	2 602	358	1 942	229	622 279	122 809	10 553	393
Garbage collectors	5	—	8	—	19	—	—	—	30	—	324	29	10	—
Stewards	—	—	21	—	3	—	2	—	71	—	42	9	7	—
Stock handlers and baggers	116	23	437	23	1 097	47	991	284	726	187	578 579	117 880	2 994	298
Machine feeders and offbearers	29	—	89	17	24	2	16	6	56	18	4 879	3 280	108	4
Freight, stock, and material handlers, n.e.c.	987	53	3 178	29	3 537	34	1 593	68	1 059	24	38 455	1 611	7 434	90
Garage and service station related occupations	873	126	27	—	184	3	39	5	26	11	269 792	21 690	183	5
Vehicle washers and equipment cleaners	98	—	107	12	58	—	61	19	85	37	32 538	2 878	81	7
Hand packers and packagers	131	16	424	209	1 195	567	3 301	1 875	1 267	681	83 093	67 697	344	78
Laborers, except construction	3 165	176	4 707	102	5 978	501	11 001	4 083	4 619	1 065	134 819	26 701	18 142	529

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Retail trade—Con.									
	Hardware stores		Retail nurseries and garden stores		Mobile home dealers		General merchandise stores			
	Total	Female	Total	Female	Total	Female	Total	Female	Variety stores	Miscellaneous general merchandise stores
Employed persons 16 years and over	194 747	68 355	59 832	19 487	31 593	8 099	2 091 598	1 448 473	161 661	143 846
Managerial and professional specialty occupations	20 666	3 878	9 314	2 268	4 834	1 001	241 877	128 763	14 638	16 431
Executive, administrative, and managerial occupations	20 055	3 581	7 902	1 522	4 662	875	211 602	111 400	13 907	14 631
Laborers, service workers, and related occupations	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—
Administrative support and clerical occupations	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	322	140	104	24	72	28	6 809	3 393	—	—
Financial managers	439	57	136	28	78	35	9 904	6 952	—	—
Personnel and labor relations managers	—	—	—	—	—	—	—	—	—	—
Purchasing managers	273	17	29	10	4	2	10 300	3 233	138	359
Managers, marketing, advertising, and public relations	2 996	322	1 294	176	1 696	184	29 735	15 778	850	249
Administrators, education and related fields	31	—	—	—	—	—	112	58	227	686
Managers, medicine and health	—	—	—	—	—	—	—	—	1 424	1 787
Managers, properties and real estate	6	—	—	—	—	—	—	—	—	31
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—
Funeral directors	10	—	—	—	23	10	160	22	4	18
Managers and administrators, n.e.c.	13 381	2 126	5 862	1 090	2 455	483	89 863	39 172	8 078	6 932
Self-employed	10 707	1 601	4 643	747	2 057	414	87 310	38 314	7 475	6 005
Management related occupations	2 674	525	1 219	343	398	69	2 553	858	603	927
Managers and auditors	2 597	919	477	194	328	133	64 690	42 776	3 186	2 478
Underwriters	614	272	135	84	181	78	10 734	7 058	437	1 018
Other financial officers	21	12	21	6	42	17	891	485	37	38
Management analysts	21	—	14	—	16	7	320	301	27	89
Personnel, training, and labor relations specialists	201	74	67	23	39	8	7 997	6 062	607	611
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	1 738	561	224	65	48	21	44 119	28 657	2 038	2 498
Construction inspectors	—	—	16	16	—	—	—	—	—	—
Inspectors and compliance officers, except construction	2	—	—	—	2	—	—	—	—	—
Management related occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—
Professional specialty occupations	611	297	1 412	746	172	126	30 275	17 363	731	1 800
Engineers, architects, and surveyors	70	5	253	78	11	—	1 216	125	68	180
Architects	8	—	230	78	4	—	324	39	39	89
Engineers	62	5	23	—	7	—	892	86	29	91
Aerospace engineers	—	—	—	—	—	—	—	—	—	—
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—
Mining engineers	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	8	—	—	—	—	—	—	—
Chemical engineers	—	—	—	—	—	—	—	—	—	—
Nuclear engineers	—	—	—	—	—	—	—	—	—	—
Civil engineers	23	—	6	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	—	—	3	—	—	—	—	—	—	—
Industrial engineers	5	5	6	—	7	—	103	8	—	—
Mechanical engineers	17	—	—	—	—	—	262	67	11	6
Marine engineers and naval architects	—	—	—	—	—	—	192	—	12	—
Engineers, n.e.c.	17	—	—	—	—	—	236	11	6	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	66	10	16	16	—	—	—	—	—	—
Computer systems analysts and scientists	43	10	9	9	—	—	1 954	772	31	226
Operations and systems researchers and analysts	23	—	7	7	—	—	1 056	316	17	130
Astronomers	—	—	—	—	—	—	608	190	14	76
Statisticians	—	—	—	—	—	—	—	—	—	—
Mathematical scientists, n.e.c.	—	—	—	—	—	—	290	266	—	20

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A)

United States		Retail trade—Con.													
		Hardware stores		Retail nurseries and garden stores		Mobile home dealers		General merchandise stores							
								Total		Department stores		Variety stores		Miscellaneous general merchandise stores	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.															
Managerial and professional specialty occupations—Con.															
Professional specialty occupations—Con.															
Natural scientists		22	—	372	125	—	—	164	114	151	108	6	6	7	—
Physicists and astronomers		—	—	—	—	—	—	17	17	10	—	—	—	—	—
Chemists, except biochemists		5	—	27	7	—	—	17	17	11	11	6	6	7	—
Atmospheric and space scientists		—	—	4	4	—	—	87	64	87	64	—	—	—	—
Geologists and geodesists		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Physical scientists, n.e.c.		13	—	316	95	—	—	38	28	38	28	—	—	—	—
Agricultural and food scientists		—	—	25	19	—	—	—	—	—	—	—	—	—	—
Biological and life scientists		4	—	—	—	—	—	—	—	—	—	—	—	—	—
Forestry and conservation scientists		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Medical scientists		—	—	—	—	—	—	5	5	5	5	—	—	—	—
Health diagnosing occupations		—	—	—	—	—	—	118	31	97	31	—	—	21	—
Physicians		—	—	—	—	—	—	35	6	35	6	—	—	—	—
Dentists		—	—	—	—	—	—	19	19	19	19	—	—	—	—
Veterinarians		—	—	—	—	—	—	13	6	6	6	—	—	7	—
Optometrists		—	—	—	—	—	—	51	—	37	—	—	—	14	—
Podiatrists		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations		24	14	5	—	6	—	2 859	1 039	2 579	924	84	26	196	89
Registered nurses		7	7	5	—	6	—	441	424	387	370	6	6	48	48
Pharmacists		17	—	—	—	—	—	2 358	569	2 138	514	78	20	142	35
Dietitians		—	—	—	—	—	—	48	41	42	35	—	—	6	6
Therapists		—	—	—	—	—	—	7	—	7	—	—	—	—	—
Physicians' assistants		—	—	—	—	—	—	5	5	5	5	—	—	—	—
Teachers, postsecondary		11	—	14	—	—	—	46	46	40	40	—	—	6	6
Teachers, except postsecondary		8	—	—	—	—	—	918	782	829	712	33	27	56	43
Teachers, prekindergarten and kindergarten		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education		—	—	—	—	—	—	11	6	11	6	—	—	—	—
Teachers, n.e.c.		8	—	14	6	—	—	907	776	818	706	33	27	56	43
Counselors, educational and vocational		—	—	—	—	—	—	5	5	5	5	—	—	—	—
Librarians, archivists, and curators		6	6	25	19	—	—	101	88	85	78	10	10	6	—
Librarians		6	6	25	19	—	—	83	77	67	67	10	10	6	—
Archivists and curators		—	—	—	—	—	—	18	11	18	11	—	—	—	—
Social scientists and urban planners		46	18	13	—	8	—	439	233	379	210	11	—	49	23
Economists		25	12	13	—	8	—	411	219	369	203	6	—	36	16
Psychologists		—	—	—	—	—	—	10	7	10	7	—	—	—	—
Sociologists		21	6	—	—	—	—	6	—	—	—	—	—	—	—
Social scientists, n.e.c.		—	—	—	—	—	—	12	7	—	—	—	—	—	—
Urban planners		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers		—	—	10	—	—	—	137	109	128	106	3	3	—	—
Social workers		—	—	—	—	—	—	117	101	114	98	3	3	—	—
Recreation workers		—	—	10	—	—	—	9	3	9	3	—	—	—	—
Clergy		—	—	—	—	—	—	11	5	5	5	—	—	—	—
Religious workers, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lawyers and judges		—	—	—	—	5	—	599	170	536	165	21	—	42	5
Lawyers		—	—	—	—	5	—	599	170	536	165	21	—	42	5
Judges		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes		358	244	704	502	142	126	21 719	13 849	20 250	12 897	464	325	1 005	627
Authors		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Technical writers		2	—	8	4	4	—	43	33	43	33	—	—	—	—
Designers		253	180	659	467	124	112	15 230	9 315	14 448	8 782	252	166	530	367
Musicians and composers		—	—	—	—	—	—	62	37	55	37	—	—	7	—
Actors and directors		—	—	—	—	—	—	40	32	40	32	—	—	—	—
Painters, sculptors, craft-artists, and artist printmakers		34	21	13	13	—	—	2 166	1 574	1 958	1 434	64	60	144	80
Photographers		—	—	—	—	8	8	759	395	690	384	30	11	39	—
Dancers		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.		23	13	—	—	—	—	359	238	297	190	39	35	23	13
Editors and reporters		41	30	12	12	—	—	1 906	1 445	1 678	1 275	49	43	179	127
Public relations specialists		5	—	12	6	6	6	988	686	883	636	30	10	75	40
Announcers		—	—	—	—	—	—	22	6	14	6	—	—	8	—

OCCUPATION BY INDUSTRY

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations
 Technicians and related support occupations
 Health technicians and technicians
 Health laboratory technologists and technicians
 Dental hygienists
 Health record technologists and technicians
 Radiologic technicians
 Licensed practical nurses
 Health technologists and technicians, n.e.c.
 Engineering and related technologists and technicians
 Electrical and electronic technicians
 Industrial engineering technicians
 Mechanical engineering technicians
 Engineering technicians, n.e.c.
 Drafting occupations
 Surveying and mapping technicians
 Science technicians
 Biological technicians
 Chemical technicians
 Science technicians, n.e.c.
 Technicians, except health, engineering, and science
 Airplane pilots and navigators
 Air traffic controllers
 Broadcast equipment operators
 Computer programmers
 Tool programmers, numerical control
 Legal assistants
 Technicians, n.e.c.
 Sales occupations
 Supervisors and proprietors, sales occupations
 Self-employed
 Sales representatives, finance and business services
 Insurance sales occupations
 Real estate sales occupations
 Securities and financial services sales occupations
 Advertising and related sales occupations
 Sales occupations, other business services
 Sales representatives, commodities, except retail
 Sales engineers
 Sales representatives, mining, manufacturing, and wholesale
 Sales workers, retail and personal services
 Sales workers, commodities
 Sales counter clerks
 Cashiers
 Street and door-to-door sales workers
 News vendors
 Sales related occupations
 Demonstrators, promoters and models, sales
 Auctioneers
 Sales support occupations, n.e.c.
 Administrative support occupations, including clerical
 Supervisors, administrative support occupations
 Supervisors, general office
 Supervisors, computer equipment operators
 Supervisors, financial records
 Chief communications operators
 Supervisors; distribution, scheduling, and adjusting clerks
 Computer equipment operators
 Computer operators
 Peripheral equipment operators

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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Retail trade—Con.														
Hardware stores			Retail nurseries and garden stores			Mobile home dealers			General merchandise stores					
			Total		Female	Total		Female	Total		Female	Total		Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations—Con.														
Administrative support occupations, including clerical—Con.														
Secretaries, stenographers, and typists														
Secretaries														
Stenographers														
Typists														
Information clerks														
Interviewers														
Hotel clerks														
Transportation ticket and reservation agents														
Receptionists														
Information clerks, n.e.c.														
Records processing occupations, except financial														
Classified-ad clerks														
Correspondence clerks														
Order clerks														
Personnel clerks, except payroll and timekeeping														
Library clerks														
File clerks														
Records clerks														
Financial records processing occupations														
Bookkeepers, accounting, and auditing clerks														
Payroll and timekeeping clerks														
Billing clerks														
Cost and rate clerks														
Billing, posting, and calculating machine operators														
Duplicating, mail, and other office machine operators														
Duplicating machine operators														
Mail preparing and paper handling machine operators														
Office machine operators, n.e.c.														
Communications equipment operators														
Telephone operators														
Telegraphers														
Communications equipment operators, n.e.c.														
Mail and message distributing occupations														
Postal clerks, except mail carriers														
Mail carriers, postal service														
Mail clerks, except postal service														
Messengers														
Material recording, scheduling, and distributing clerks														
Dispatchers														
Production coordinators														
Traffic, shipping, and receiving clerks														
Stock and inventory clerks														
Meter readers														
Weighters, measurers, and checkers														
Samplers														
Expeditors														
Material recording, scheduling, and distributing clerks, n.e.c.														
Adjusters and investigators														
Insurance adjusters, examiners, and investigators														
Investigators and adjusters, except insurance														
Eligibility clerks, social welfare														
Bill and account collectors														
Miscellaneous administrative support occupations														
General office clerks														
Bank tellers														
Proofreaders														
Date-entry keyers														
Statistical clerks														
Teachers' aides														
Administrative support occupations, n.e.c.														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.														
			Retail nurseries and garden stores				Mobile home dealers		General merchandise stores					
Hardware stores			Total		Female		Total		Female		Total		Female	
Total			Female		Total		Female		Total		Female		Total	
Service occupations			377		216		1 294		653		115 178		62 519	
Private household occupations			1 683		962		1 294		653		115 178		62 519	
Protective service occupations			136		59		66		—		25 797		12 338	
Supervisors, protective service occupations			28		8		—		—		1 547		388	
Supervisors, firefighting and fire prevention occupations			—		—		—		—		24		—	
Supervisors, police and detectives			—		—		—		—		—		—	
Supervisors, guards			28		8		—		—		1 523		388	
Firefighting and fire prevention occupations			—		—		—		—		39		11	
Fire inspection and fire prevention occupations			—		—		—		—		23		11	
Firefighting occupations			—		—		—		—		16		—	
Police and detectives			—		—		—		—		—		—	
Police and detectives, public service			—		—		—		—		—		—	
Sheriffs, bailiffs, and other law enforcement officers			—		—		—		—		—		—	
Correctional institution officers			—		—		—		—		—		—	
Guards			108		51		66		—		24 211		11 929	
Crossing guards			—		—		—		—		17		12	
Guards and police, except public service			108		48		66		—		24 077		11 063	
Protective service occupations, n.e.c.			—		3		—		—		117		59	
Service occupations, except protective and household food preparation and service occupations			1 547		903		1 228		653		89 381		50 181	
Food preparation and service occupations			79		17		—		—		43 070		35 409	
Supervisors, food preparation and service occupations			7		—		—		—		2 003		1 489	
Bakers			—		—		—		—		248		129	
Butchers and waitresses			29		11		—		—		16 879		16 207	
Cooks, except short order			11		—		—		—		11 307		8 972	
Short-order cooks			—		—		—		—		1 357		1 044	
Food counter, fountain and related occupations			9		4		—		—		1 748		1 362	
Kitchen workers, food preparation			—		—		—		—		1 142		1 043	
Waiters and waitresses, restaurants			2		—		—		—		2 426		1 334	
Miscellaneous food preparation occupations			21		6		—		—		5 940		3 347	
Health service occupations			7		—		4		—		531		450	
Dental assistants			—		—		—		—		9		4	
Health aides, except nursing			5		—		—		—		409		380	
Nurses, except registered			—		—		—		—		113		66	
Herding aides, caretakers, and attendants			2		—		—		—		113		66	
Cleaning and building service occupations, except household			1 416		647		1 194		623		37 027		6 875	
Supervisors, cleaning and building service workers			11		4		—		—		1 575		1 118	
Maids and housemen			206		91		152		124		4 056		1 663	
Janitors and cleaners			1 176		544		1 042		499		30 624		4 813	
Elevator operators			16		6		—		—		754		281	
Pest control occupations			7		4		—		—		18		—	
Personal service occupations			45		239		30		30		8 753		7 447	
Supervisors, personal service occupations			8		—		—		—		222		144	
Barbers			—		—		—		—		148		5	
Hairstylists and cosmetologists			2		—		—		—		5 368		4 767	
Attendants, amusement and recreation facilities			—		9		—		—		130		116	
Guides			2		3		—		—		24		17	
Ushers			—		—		—		—		6		6	
Public transportation attendants			—		—		—		—		21		18	
Baggage porters and bellhops			—		—		—		—		—		—	
Welfare service aides			30		7		30		30		176		150	
Child care workers, except private household			3		7		—		—		2 658		2 224	
Personal service occupations, n.e.c.			—		—		—		—		—		—	
Farming, forestry, and fishing occupations			229		3 450		85		—		400		136	
Farm operators and managers			—		—		—		—		17		9	
Farm occupations, except managerial			12		8		78		—		350		111	
Related agricultural occupations			210		2 465		423		6		6		273	
Supervisors, related agricultural occupations			—		—		—		—		254		80	
Groundskeepers and gardeners, except farm			186		31		78		—		208		20	
Animal caretakers, except farm			24		6		—		—		90		31	
Graders and sorters, agricultural products			—		—		—		—		—		—	
Inspectors, agricultural products			—		—		—		—		—		—	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

United States

Data are estimates based on a sample of establishments. For meaning of symbols, see instructions.

Retail trade—Con.

	Hardware stores		Retail nurseries and garden stores		Mobile home dealers		General merchandise stores							
	Total	Female	Total	Female	Total	Female	Total	Female	Department stores	Variety stores	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Farming, forestry, and fishing occupations—Con.														
Forestry and logging occupations—Con.														
Supervisors, forestry and logging workers—	7	7	31	1	7	—	16	5	11	—	—	—	5	5
Forestry workers, except logging—	7	7	—	—	—	—	5	—	—	—	—	—	—	—
Timber cutting and logging occupations—	—	—	23	1	4	—	11	5	11	—	—	—	—	—
Fishers, hunters, and trappers—	—	—	2	2	3	—	17	11	17	—	—	—	—	—
Capitans and other officers, fishing vessels—	—	—	2	2	—	—	17	11	17	—	—	—	—	—
Hunters and trappers—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations—														
Mechanics and repairers—	8 502	509	5 393	197	4 746	102	95 506	30 884	85 023	26 759	3 615	1 714	6 868	2 411
Supervisors, mechanics and repairers—	3 860	28	3 481	28	3 727	39	41 153	2 152	38 617	1 974	562	100	1 974	78
Mechanics and repairers, except supervisors—	115	—	108	—	62	—	1 171	164	1 062	144	43	12	66	8
Vehicle and mobile equipment mechanics and repairers—	3 745	28	3 373	28	3 665	39	39 982	1 988	37 555	1 830	519	88	1 908	70
Automobile mechanics—	1 387	2	2 522	26	792	18	20 199	607	19 092	673	323	7	784	23
Bus, truck, and stationary engine mechanics—	213	2	206	—	643	14	18 600	607	17 748	583	266	7	586	17
Aircraft engine mechanics—	73	—	66	—	36	—	184	—	139	—	2	—	43	—
Small engine repairers—	602	—	2 115	24	86	—	854	92	725	85	42	—	89	8
Automobile body and related repairers—	7	—	44	—	8	—	392	5	363	5	—	—	29	—
Aircraft mechanics, except engine—	18	—	81	—	11	—	113	—	75	—	13	—	25	—
Heavy equipment mechanics—	474	—	—	—	—	—	50	—	44	—	—	—	6	—
Farm equipment mechanics—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial machinery repairers—	169	10	145	—	88	—	1 333	68	1 221	51	8	—	104	17
Machinery maintenance occupations—	11	5	23	—	31	1	12 307	629	11 749	629	9	—	551	—
Electrical and electronic equipment repairers—	232	—	2	—	14	—	3 480	76	3 351	76	3	—	126	—
Electronic repairers, except supervisors—	583	—	16	—	16	—	8 559	462	8 136	462	6	—	417	—
Radio processing equipment repairers—	5	5	2	—	—	—	108	65	100	65	—	—	8	—
Telephone line installers and repairers—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous electrical and electronic equipment repairers—	5	—	3	—	1	1	116	14	116	14	—	—	—	—
Heating, air conditioning, and refrigeration mechanics—	136	11	683	2	41	—	1 509	16	1 397	9	9	7	103	—
Miscellaneous mechanics and repairers—	1 217	—	—	—	2 713	20	4 565	570	4 040	468	170	74	355	28
Camera, watch, and musical instrument repairers—	7	—	9	—	—	—	552	126	516	126	5	—	36	—
Locksmiths and safe repairers—	226	—	—	—	—	—	60	31	179	31	—	—	14	—
Office machine repairers—	—	—	—	—	—	—	19	18	18	6	—	—	12	—
Mechanical controls and valve repairers—	16	11	7	—	—	—	136	—	136	—	—	—	—	—
Electrician installers and repairers—	18	—	—	—	—	—	30	—	30	—	—	—	—	—
Millwrights—	680	—	378	2	—	16	1 521	243	1 304	156	106	74	111	13
Not specified mechanics and repairers—	318	—	287	2	107	4	2 057	157	1 816	142	59	—	182	15
Construction trades—														
Supervisors, construction occupations—	2 006	37	502	6	607	27	6 543	286	5 711	252	292	17	540	17
Supervisors, brickmasons, stonemasons, and tile setters—	60	—	27	—	54	8	696	50	641	50	39	—	16	—
Supervisors, carpenters and related workers—	12	—	—	—	6	—	28	—	25	—	3	—	—	—
Supervisors, electricians and power transmission installers—	7	—	—	—	—	—	57	—	51	—	6	—	—	—
Supervisors, painters, paperhangers, and plasterers—	—	—	—	—	—	—	12	—	12	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters—	7	—	—	—	—	—	2	—	2	—	—	—	—	—
Supervisors, n.e.c.—	34	—	27	—	48	8	594	50	548	50	30	—	16	—
Construction trades, except supervisors—														
Brickmasons and stonemasons—	1 946	37	475	6	553	19	5 847	236	5 070	202	253	17	524	17
Tile setters, hard and soft—	2	—	—	—	—	—	23	—	10	—	—	—	—	—
Carpet installers—	18	—	—	—	80	—	16	—	602	—	—	—	6	—
Carpenters—	97	—	14	—	355	—	647	—	1 819	—	8	—	37	—
Drumwall installers—	555	24	108	—	—	13	2 264	24	1 819	14	163	10	282	—
Electricians—	—	—	7	—	37	—	34	—	34	—	—	—	67	—
Electrical power installers and repairers—	243	—	—	—	—	—	1 015	32	934	—	14	—	—	—
Electrician, construction and maintenance—	2	—	—	—	—	—	26	—	26	—	—	—	—	—
Pointers, construction and maintenance—	95	—	28	—	30	—	847	38	763	7	35	2	4	2

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Retail Trade—Con.					
	Hardware stores		Retail nurseries and garden stores		Mobile home dealers	
	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	General merchandise stores					
	Department stores		Variety stores		Miscellaneous general merchandise stores	
	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.						
Construction trades—Con.						
Construction trades, except supervisors—Con.						
Plumbers, pipefitters, and steamfitters	675	—	—	—	—	—
Concrete and masonry finishers	8	—	—	—	—	—
Glaziers	138	—	—	—	—	—
Insulation workers	12	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	14	—	—	—	—	—
Roofers	21	—	—	—	—	—
Sheetmetal duct installers	6	—	—	—	—	—
Structural metal workers	2	—	—	—	—	—
Drillers, earth	2	—	—	—	—	—
Construction trades, n.e.c.	56	—	—	—	—	—
Extractive occupations	11	—	—	—	—	—
Supervisors, extractive occupations	9	—	—	—	—	—
Drillers, oil well	—	—	—	—	—	—
Explosives workers	—	—	—	—	—	—
Mining machine operators	2	—	—	—	—	—
Mining occupations, n.e.c.	—	—	—	—	—	—
Precision production occupations	2 625	444	1 410	163	412	36
Supervisors, production occupations	2 278	391	1 319	139	339	18
Precision metalworking occupations	235	12	37	10	17	—
Tool and die makers	47	—	—	—	—	—
Precision assemblers, metal	—	—	—	—	—	—
Machinists	80	5	16	—	12	—
Boilermakers	6	—	—	—	—	—
Precision grinders, filers, and tool sharpeners	42	—	6	—	—	—
Patternmakers and model makers, metal	—	—	—	—	—	—
Lay-out workers	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	7	7	5	—	—	—
Engravers, metal	53	—	10	10	5	—
Sheet metal workers	—	—	—	—	—	—
Miscellaneous precision metal workers	—	—	—	—	—	—
Precision woodworking occupations	22	9	—	—	5	5
Patternmakers and model makers, wood	4	—	—	—	—	—
Cabinet makers and bench carpenters	9	—	—	—	—	—
Furniture and wood finishers	9	—	—	—	—	—
Metal and plastic workers	26	21	25	10	5	5
Precision leather, apparel, and furnishings machine workers	26	21	10	10	6	6
Dressmakers	—	—	6	—	12	—
Tailors	—	—	7	—	9	—
Upholsterers	—	—	—	—	—	—
Shoe repairers	—	—	2	—	—	—
Apparel and fabric patternmakers	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—
Precision workers, assorted materials	34	—	10	4	—	—
Hand molders and shapers, except jewelers	7	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	—	—	—	—	—	—
Optical goods workers	—	—	4	4	—	—
Dental laboratory and medical appliance technicians	7	—	—	—	—	—
Bookbinders	—	—	—	—	—	—
Electrical and electronic equipment assemblers	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.	20	—	6	—	—	—
Precision food production occupations	16	—	12	—	14	—
Butchers and meat cutters	—	—	—	—	—	—
Bakers	—	—	—	—	—	—
Food batchmakers	—	—	—	—	—	—
Precision inspectors, testers, and related workers	—	—	—	—	—	—
Inspectors, testers, and graders	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	—	—

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Retail trade—Con.

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Power system operators

Power plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and assemblers, except precision

Metalworking machine operators

Metalworking machine operators

Lathe and boring machine operators

Lathe and boring machine operators

Grinding and polishing machine operators

Grinding and polishing machine operators

Drilling and tapping machine operators

Drilling and tapping machine operators

Grinding, abrading, buffing, and polishing machine operators

Grinding, abrading, buffing, and polishing machine operators

Forging machine operators

Forging machine operators

Metalworking machine operators

Metalworking machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Metal and casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

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Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

Metal casting machine operators

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.
Folding machine operators
Furnace, kiln, and oven operators, except food
Crushing and grinding machine operators
Slicing and cutting machine operators
Motion picture projectionists
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified

Fabricators, assemblers, and hand working occupations
Welders and cutters
Solders and brazers
Assemblers
Hand crimping and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Production samples
Graders and sorters, except agricultural

Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxis/cab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.

Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats
Salvors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders

Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Graders, dozers, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Retail trade—Con.													
Hardware stores		Retail nurseries and garden stores		Mobile home dealers		General merchandise stores							
						Total		Department stores		Variety stores		Miscellaneous general merchandise stores	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
9 452	1 207	5 745	1 176	1 009	76	97 291	32 007	78 971	26 671	9 287	2 767	9 033	2 569
—	—	—	—	—	—	66	40	52	31	—	—	14	9
—	—	5	—	—	—	184	6	184	6	—	—	—	—
37	2	—	—	7	—	72	6	70	6	—	—	2	—
37	2	—	—	7	—	71	5	69	5	—	—	2	—
—	—	—	—	—	—	1	1	1	1	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
83	2	55	—	46	6	193	10	156	10	11	—	26	—
69	22	31	6	2	—	373	151	283	107	26	11	64	33
5 682	554	1 413	80	115	204	68 100	20 070	55 204	16 448	7 395	2 000	5 501	1 622
6	6	—	—	8	—	36	—	29	—	—	—	7	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
4 815	512	712	61	12	—	60 408	19 213	48 551	15 743	6 946	1 918	4 911	1 552
31	19	—	—	18	—	502	403	399	310	45	38	58	55
829	17	701	19	77	—	7 154	454	6 225	395	404	44	525	15
—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	—	—	—	107	6	3 235	292	2 877	216	42	19	316	57
66	10	—	—	27	17	775	276	749	226	111	30	115	30
407	253	170	106	705	47	7 798	6 478	7 257	6 161	1 332	207	2 349	70
3 082	364	4 071	984	705	47	16 335	4 678	12 139	3 460	1 570	637	2 646	581

Employed persons 16 years and over—Con.
Operators, fabricators, and laborers—Con.
Handlers, equipment cleaners, helpers, and laborers
Supervisors, handlers, equipment cleaners, and laborers,
n.e.c.
Helpers, mechanics and repairers
Helpers, construction and extractive occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations
Construction laborers
Production workers
Freight, stock, and material handlers
Garbage collectors
Stevedores
Stock handlers and boppers
Machine feeders and officers
Freight, stock, and material handlers, n.e.c.
Garage and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Retail trade—Con.									
	Food stores									
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	2 503 595	1 145 676	2 137 219	957 659	52 280	29 284	156 077	91 501	158 019	67 232
Managerial and professional specialty occupations	165 896	47 597	143 940	39 105	3 884	1 793	5 536	2 345	12 536	4 354
Executive, administrative, and managerial occupations	158 314	44 450	137 397	36 450	3 746	1 772	5 287	2 204	11 884	4 074
Legislators, chief executives, and general administrators; public administration	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	30	—	30	—	—	—	—	—	—	—
Financial managers	1 486	441	1 263	354	31	20	63	14	129	53
Personnel and labor relations managers	5 081	1 457	4 261	1 168	96	17	209	119	515	153
Purchasing managers	1 487	662	1 413	638	14	6	5	—	55	18
Managers, marketing, advertising, and public relations	11 219	2 664	7 794	1 403	493	205	956	347	1 976	709
Administrators, education and related fields	46	9	37	5	—	—	—	—	9	4
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	172	43	164	43	—	—	8	—	—	—
Federal directors	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	5	—	5	—	—	—	—	—	—	—
Salaried	118 196	31 739	104 051	26 184	2 760	1 296	3 680	1 578	7 705	2 681
Self-employed	102 191	26 697	91 273	22 304	2 143	1 034	2 899	1 228	5 876	2 131
Management related occupations	16 005	5 042	12 778	3 880	617	262	781	350	1 829	550
Accountants and auditors	20 592	7 435	18 379	6 655	352	178	366	146	1 495	456
Underwriters	6 965	3 482	6 514	3 235	116	61	87	48	248	138
Other financial officers	253	18	24	18	—	—	10	—	3	—
Management analysts	152	62	218	51	—	—	5	—	25	—
Personnel, training, and labor relations specialists	3 789	84	107	52	10	10	5	5	30	11
Purchasing agents and buyers, farm products	190	1 408	3 303	1 211	143	70	171	42	172	85
Buyers, wholesale and retail trade except farm products	8 926	2 265	7 818	2 007	78	32	75	39	29	6
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	955	187
Business and promotion agents	76	20	61	14	—	—	—	—	15	6
Construction inspectors	11	—	11	—	—	—	—	—	—	—
Inspectors and compliance officers, except construction	124	44	104	30	—	—	6	6	14	8
Management related occupations, n.e.c.	79	34	70	25	5	5	—	—	4	4
Professional specialty occupations	7 582	3 147	6 543	2 655	138	71	249	141	652	280
Engineers, architects, and surveyors	1 166	97	976	47	12	—	59	12	119	38
Architects	246	15	222	15	—	—	7	—	17	—
Engineers	920	82	754	32	12	—	52	12	102	38
Aerospace engineers	2	—	—	—	—	—	—	—	2	—
Mechanical and materials engineers	14	—	14	—	—	—	—	—	5	—
Mining engineers	5	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	—	—	—	—	—	—	—	—
Chemical engineers	15	—	15	—	—	—	—	—	—	—
Nuclear engineers	157	6	117	6	—	—	24	—	16	—
Civil engineers	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	72	—	66	—	6	—	—	—	—	—
Industrial engineers	337	76	267	26	—	—	20	12	50	38
Mechanical engineers	167	—	140	—	—	—	8	—	19	—
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—
Engineers, n.e.c.	151	—	135	—	6	—	—	—	10	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	617	153	565	139	8	—	5	5	39	9
Computer systems analysts and scientists	360	104	333	99	—	—	5	5	22	9
Operations and systems researchers and analysts	221	36	204	27	—	—	—	—	17	—
Activities	—	—	—	—	—	—	—	—	—	—
Statisticians	36	13	28	13	8	—	—	—	—	—
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—
Motor vehicle dealers	887 663	145 164	99 491	16 460	55 442	13	13	13	55 442	13
Food stores, n.e.c.	158 019	67 232	12 536	4 354	129 515	53	129 515	53	129 515	53
Retail bakeries	156 077	91 501	5 536	2 345	3 884	1 793	5 536	2 345	12 536	4 354
Dairy products stores	52 280	29 284	3 884	1 793	3 746	1 772	5 287	2 204	11 884	4 074
Grocery stores	2 137 219	957 659	143 940	39 105	3 746	1 772	5 287	2 204	11 884	4 074
Auto and home supply stores	313 348	59 621	99 491	16 460	55 442	13	13	13	55 442	13

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con.									
	Food stores					Motor vehicle dealers				
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
United States										
Employed persons 16 years and over—Con.										
Managerial and professional specialty occupations—Con.										
Professional specialty occupations—Con.										
Natural scientists	184	69	59	11	—	—	—	—	—	—
Physicists and astronomers	—	—	—	—	—	—	—	—	—	—
Chemists, except biochemists	45	27	21	—	—	—	—	—	—	—
Atmospheric and space scientists	32	10	6	—	—	—	—	—	—	—
Physicists and geodesists	60	23	23	11	—	—	—	—	—	—
Physicists and geodesists, n.e.c.	22	9	9	—	—	—	—	—	—	—
Agricultural and life scientists	12	—	—	—	—	—	—	—	—	—
Biological and life scientists	55	7	—	—	—	—	—	—	—	—
Forestry and conservation scientists	22	—	—	—	—	—	—	—	—	—
Medical scientists	33	7	—	—	—	—	—	—	—	—
Health diagnosing occupations	33	7	—	—	—	—	—	—	—	—
Physicians	236	397	308	11	—	—	—	—	—	—
Dentists	65	50	36	—	—	—	—	—	—	—
Veterinarians	1 004	228	228	—	—	—	—	—	—	—
Podiatrists	155	119	44	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	2	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	33	7	—	—	—	—	—	—	—	—
Registered nurses	1 236	397	308	11	—	—	—	—	—	—
Pharmacists	65	50	36	—	—	—	—	—	—	—
Dietitians	155	119	44	—	—	—	—	—	—	—
Therapists	10	—	—	—	—	—	—	—	—	—
Physicians' assistants	2	—	—	—	—	—	—	—	—	—
Teachers, postsecondary	71	28	21	—	—	—	—	—	—	—
Teachers, except postsecondary	356	265	230	—	—	—	—	—	—	—
Teachers, prekindergarten and kindergarten	6	6	6	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	350	259	224	—	—	—	—	—	—	—
Counselors, educational and vocational	18	—	—	—	—	—	—	—	—	—
Librarians, archivists, and curators	29	21	21	—	—	—	—	—	—	—
Librarians	29	21	21	—	—	—	—	—	—	—
Archivists and curators	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	391	112	78	17	—	—	—	—	—	—
Economists	359	106	72	17	—	—	—	—	—	—
Psychologists	18	—	—	—	—	—	—	—	—	—
Sociologists	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	6	6	6	—	—	—	—	—	—	—
Urban planners	8	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	118	63	39	8	—	—	—	—	—	—
Social workers	92	61	37	8	—	—	—	—	—	—
Recreation workers	10	—	—	—	—	—	—	—	—	—
Clergy	11	2	2	—	—	—	—	—	—	—
Religious workers, n.e.c.	5	—	—	—	—	—	—	—	—	—
Lowerers and judges	181	6	6	—	—	—	—	—	—	—
Lowerers	181	6	6	—	—	—	—	—	—	—
Judges	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	3 160	1 929	1 707	82	71	74	—	—	—	—
Authors	19	19	13	—	—	—	—	—	—	—
Technical writers	1 963	1 350	1 185	68	65	53	—	—	—	—
Musicians and composers	28	22	15	—	—	—	—	—	—	—
Actors and directors	35	35	15	—	—	—	—	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	328	124	283	6	6	6	—	—	—	—
Photographers	58	25	25	8	8	—	—	—	—	—
Dancers, entertainers, and related workers, n.e.c.	108	5	5	—	—	—	—	—	—	—
Editors and reporters	217	134	134	—	—	—	—	—	—	—
Public relations specialists	322	207	165	—	—	—	—	—	—	—
Public relations specialists, n.e.c.	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

United States

Employed persons 16 years and over—Con.

Total		Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.		Motor vehicle dealers		Auto and home supply stores	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
1 347 501	848 797	1 167 044	724 827	32 522	21 019	65 598	54 261	82 337	48 690	416 822	118 492	179 051	50 114
2 802	825	2 505	719	65	45	40	14	172	47	6 148	4 759	577	126
40	4	34	35	—	—	—	—	6	6	78	47	13	13
19	6	13	—	—	—	—	—	—	—	32	14	—	—
6	6	—	—	—	—	—	—	—	—	—	—	—	—
6	6	—	—	—	—	—	—	—	—	—	—	—	—
12	12	12	12	—	—	—	—	—	—	—	—	—	—
23	17	23	17	—	—	—	—	—	—	23	23	—	—
813	201	748	169	19	19	7	7	39	6	383	34	159	35
169	63	158	63	—	—	—	—	11	—	153	13	79	26
150	6	150	6	—	—	—	—	—	—	13	—	6	—
26	—	26	—	—	—	—	—	—	—	27	—	17	—
147	54	116	28	19	19	7	7	—	—	14	6	36	—
197	70	275	64	—	—	—	—	16	6	149	11	20	9
30	8	23	8	—	—	—	—	7	4	27	4	1	—
219	105	171	95	14	5	—	—	34	5	79	14	26	—
100	30	66	20	14	5	—	—	20	5	8	—	7	—
35	35	35	35	—	—	—	—	—	—	8	—	—	—
84	40	70	40	—	—	—	—	14	—	63	14	19	78
1 710	478	1 552	420	32	21	33	7	93	30	5 608	4 664	379	6
45	—	45	—	—	—	—	—	—	—	44	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	5	—	—	—	—	—	—	—	32	6	4	—
1 238	332	1 163	306	11	5	25	5	39	16	229	115	180	56
43	11	34	11	—	—	—	—	9	7	17	—	15	—
157	59	141	50	5	—	2	2	—	—	4 689	4 495	15	6
217	76	164	53	16	16	6	—	31	7	4 597	4 495	159	12
1 148 408	733 839	985 952	622 911	29 464	18 771	60 997	50 707	71 995	41 450	301 540	21 251	132 293	13 896
407	80 427	273 773	67 159	6 576	2 975	9 531	4 387	17 547	5 946	41 237	2 229	35 800	1 907
215 395	51 515	194 834	42 221	4 356	2 149	6 936	3 428	9 269	3 717	30 940	1 695	27 210	1 331
92 032	28 592	78 939	24 938	2 220	826	2 595	959	8 278	2 297	10 297	584	8 590	575
625	217	579	171	8	8	—	13	25	25	766	244	29	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
282	76	262	56	—	—	13	13	7	7	699	199	23	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
343	141	317	115	8	8	—	—	18	18	67	45	6	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	4	6	—	—	—	4	4	—	—	74	—	33	—
10	4	6	—	—	—	4	4	—	—	74	—	33	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
838 815	451 762	710 203	554 312	22 840	15 764	51 429	46 283	54 334	35 403	259 300	18 764	96 412	11 983
107 272	78 172	1 367	532	18 265	11 977	43 691	39 084	43 967	26 579	250 780	11 633	92 823	9 242
2 011	1 298	1 386	647	361	255	315	297	149	99	950	266	153	15
728 678	571 776	707 173	552 826	4 147	3 479	7 410	6 891	9 948	8 580	7 450	6 799	3 002	2 677
549	378	239	190	57	46	8	6	225	136	102	59	96	40
305	138	236	117	19	7	5	5	45	9	18	7	38	9
1 531	1 389	1 391	1 269	31	24	20	20	89	76	163	14	19	—
1 346	1 260	1 221	1 152	25	18	14	14	86	76	75	6	15	8
—	—	—	—	—	—	—	—	—	—	54	—	—	—
180	129	165	117	6	6	6	6	3	—	34	8	4	—
196 291	114 133	178 567	101 197	2 993	2 203	4 561	3 540	10 170	7 193	109 134	92 482	46 181	36 091
16 264	7 774	15 047	7 075	199	137	390	244	628	316	2 847	1 790	1 322	523
13 907	6 886	12 956	6 281	179	119	281	217	491	269	2 047	1 474	861	378
217	61	198	49	10	10	2	2	7	—	39	7	26	7
1 105	711	1 011	643	10	10	36	25	48	33	681	292	278	124
31	18	18	7	—	—	7	—	6	—	6	6	—	—
1 004	109	864	95	—	—	64	—	76	14	74	11	157	14
3 013	1 661	2 757	1 495	30	18	61	43	165	107	2 813	2 470	1 001	826
2 806	1 523	2 586	1 382	14	14	54	35	152	100	2 688	2 353	975	800
207	140	171	112	16	16	7	5	13	7	125	117	26	26

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction for meaning of symbols. For definitions of terms, see appendix A.]

Retail trade—Con														
Food stores														
	Total		Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.		Motor vehicle dealers		Auto and home supply stores	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	16 211	15 763	13 935	13 562	340	320	509	475	1 427	1 406	25 539	25 099	6 876	6 782
Administrative support occupations, including clerical—Con.	14 652	14 308	12 549	12 280	307	287	465	431	1 331	1 310	23 036	22 677	6 499	6 405
Secretaries	52	29	17	17	2	2	—	—	10	10	89	71	5	5
Stenographers	1 507	1 426	1 346	1 265	31	31	44	44	86	86	2 414	2 351	372	372
Typists	1 779	1 562	1 461	1 273	69	61	78	78	171	150	4 152	3 928	792	686
Information clerks	187	120	145	92	—	—	9	9	33	19	56	34	208	179
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Travel clerks	95	86	—	—	—	—	—	—	9	2	29	11	20	6
Ticket and reservation agents	1 277	1 073	48	56	56	56	69	69	79	79	3 679	3 572	454	435
Receptionists	220	184	157	129	13	5	—	—	50	50	388	311	110	66
Information clerks, n.e.c.	13 520	6 418	12 388	5 598	197	87	281	245	724	498	3 645	2 503	1 818	892
Records processing occupations, except financial	314	219	312	219	2	—	—	—	—	—	16	11	21	8
Classified clerks	14	14	8	8	—	—	—	—	—	—	—	—	—	—
Confidential clerks	11 814	4 948	10 838	4 251	120	87	240	204	616	406	1 525	543	1 369	487
Order clerks	445	438	432	425	—	—	13	13	—	—	112	103	44	29
Personal clerks, except payroll and timekeeping	42	16	42	16	—	—	—	—	—	—	10	10	—	—
Library clerks	777	669	647	560	5	—	23	23	102	86	1 897	1 794	370	354
File clerks	114	114	109	109	—	—	5	5	—	—	72	42	14	14
Records clerks	50 305	45 709	45 064	40 865	856	784	1 354	1 294	3 031	2 766	39 937	37 462	19 733	18 536
Financial records processing occupations	44 671	41 594	39 956	37 216	740	677	1 184	1 131	2 791	2 570	36 487	34 118	18 862	17 811
Bookkeepers, accounting, and auditing clerks	1 811	1 749	1 556	1 502	57	57	103	103	95	95	1 055	1 005	232	204
Payroll and timekeeping clerks	826	682	683	556	41	41	27	27	75	58	1 901	1 827	425	382
Billing clerks	2 675	1 442	2 582	1 378	18	9	23	17	52	39	134	81	150	94
Cost and rate clerks	322	242	287	213	—	—	17	17	18	12	160	131	64	45
Billing, posting, and calculating machine operators	125	102	125	102	—	—	—	—	—	—	22	22	31	23
Duplicating machine operators	36	29	36	29	—	—	—	—	—	—	—	—	12	4
Mail preparing and paper handling machine operators	29	19	29	19	—	—	—	—	—	—	—	—	19	19
Office machine operators, n.e.c.	60	54	60	54	—	—	—	—	—	—	22	22	158	158
Communications equipment operators	517	511	459	453	19	19	27	27	12	12	2 723	2 669	154	154
Telephone operators	511	505	453	447	19	19	27	27	12	12	2 707	2 661	4	4
Telegraphers	6	6	6	6	—	—	—	—	—	—	8	8	—	—
Communications equipment operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail and message distributing occupations	1 699	577	1 267	495	67	11	104	20	261	51	922	183	800	247
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, except postal service	1 077	438	821	370	37	11	53	6	166	51	265	95	487	156
Mail clerks, except postal service	622	139	446	125	30	11	51	14	95	—	657	88	313	91
Messengers	61 362	12 666	57 885	11 467	540	232	1 003	404	1 934	563	7 975	2 027	7 152	2 471
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dispatchers	5 938	2 857	5 463	2 533	12	42	34	13	32	8	1 919	1 843	298	107
Production coordinators	9 386	1 176	8 368	1 397	100	79	200	156	175	69	559	126	1 346	107
Traffic, shipping, and receiving clerks	40 420	5 657	39 190	5 343	139	16	445	55	434	103	1 457	1 372	1 546	238
Stock and inventory clerks	—	—	—	—	191	56	160	67	879	191	3 419	1 234	4 708	1 903
Meat readers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Weights, measurers, and checkers	1 778	920	1 377	726	21	14	111	79	269	101	19	2	141	12
Samples	35	13	35	13	—	—	—	—	—	—	31	12	29	9
Expeditors	2 542	1 522	2 325	1 383	71	61	37	23	109	55	515	94	218	104
Material recording, scheduling, and distributing clerks, n.e.c.	776	458	718	405	6	6	16	11	36	36	56	24	69	62
Adjusters and investigators	1 711	804	1 559	722	36	7	6	—	110	75	1 998	760	992	573
Insurance adjusters, examiners, and investigators	1 252	547	1 133	485	18	2	6	—	95	60	1 526	581	516	261
Investigators and adjusters, except insurance	163	110	163	127	—	—	—	—	—	—	45	45	17	17
Equality clerks, social welfare	296	147	263	127	18	5	—	—	15	15	427	134	459	295
Bill and account collectors	29 785	20 584	26 620	18 100	710	525	748	710	1 707	1 249	16 561	13 569	5 506	4 374
Miscellaneous administrative support occupations	24 057	16 745	21 222	14 543	624	439	684	646	1 527	1 097	12 108	10 455	4 540	3 571
General office clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bank tellers	21	21	21	21	83	83	57	57	89	89	11	11	650	601
Proofreaders	2 387	2 356	2 356	2 356	—	—	5	5	19	19	13	13	171	149
Date-entry keypunch operators	41	36	41	36	3	3	2	2	5	5	3	3	8	4
Subordinate office help—n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Retail trade—Con.									
	Food stores									
	Total		Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	100 008	54 164	68 216	33 015	6 662	4 740	18 976	13 610	6 154	2 799
Private household occupations	4 328	564	4 104	559	21	—	56	—	147	5
Protective service occupations	251	8	238	8	6	—	—	—	7	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	251	8	238	8	6	—	—	—	7	—
Supervisors, guards	19	—	19	—	—	—	—	—	—	—
Firefighting and fire prevention occupations	7	—	7	—	—	—	—	—	—	—
Fire inspection and fire prevention occupations	12	—	12	—	—	—	—	—	—	—
Freight handling occupations	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	4 058	556	3 847	551	15	—	56	—	140	5
Crossing guards	—	—	—	—	—	—	—	—	—	—
Guards and police, except public service	4 042	556	3 831	551	15	—	56	—	140	5
Protective service occupations, n.e.c.	16	—	16	—	—	—	—	—	—	—
Food preparation and service occupations	95 680	53 600	64 112	32 456	6 641	4 740	18 920	13 610	6 007	2 794
Food preparation and service occupations, except household	64 120	48 231	39 552	28 694	6 159	4 607	14 738	12 507	3 671	2 423
Supervisors, food preparation and service occupations	1 591	797	1 279	629	19	7	174	104	33	57
Bartenders	342	112	305	92	—	—	4	—	—	—
Waiters and waitresses	19 246	17 936	7 131	6 475	2 926	2 539	8 401	8 180	788	742
Cooks, except short order	18 088	12 786	14 602	10 853	546	317	1 401	902	1 195	714
Short-order cooks	810	498	550	356	—	—	157	86	53	31
Food counter, fountain and related occupations	8 095	6 175	2 663	1 801	2 156	1 529	2 845	2 547	431	298
Kitchen workers, food preparation	8 046	6 002	7 381	5 610	72	42	112	86	481	264
Kitchen workers, assistants	1 856	764	1 539	939	126	31	95	39	96	33
Waiters and waitresses	6 046	3 161	4 102	2 217	264	117	1 205	559	475	268
Miscellaneous food preparation occupations	338	210	286	176	14	14	16	8	22	12
Health service occupations	—	—	—	—	—	—	—	—	—	—
Dental assistants	291	177	257	161	6	6	16	8	12	2
Health aides, except nursing	47	33	29	15	—	—	—	—	—	—
Nursing aides, orderlies, and attendants	29 453	3 588	23 201	2 662	447	98	3 594	533	2 211	10
Cleaning and building service occupations, except household	462	15	427	15	10	—	12	—	13	—
Supervisors, cleaning and building service workers	3 075	462	2 519	373	47	20	303	49	206	20
Maid and housemen	25 884	3 099	20 223	2 262	390	78	3 279	484	1 992	275
Janitors and cleaners	18	12	18	12	—	—	—	—	—	—
Elevator operators	14	—	14	—	—	—	—	—	—	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—
Personal service occupations	1 749	1 571	1 073	924	21	21	572	562	103	64
Supervisors, personal service occupations	13	2	9	2	—	—	—	—	4	—
Barbers	12	—	12	—	—	—	—	—	—	—
Hairstylists and cosmetologists	211	211	204	204	—	—	7	7	—	—
Attendants, amusement and recreation facilities	60	38	49	38	7	7	6	6	11	—
Guides	26	19	13	6	—	—	—	—	—	—
Ushers	11	4	11	4	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	75	65	55	45	—	—	8	8	12	12
Personal service occupations, n.e.c.	1 341	1 232	700	625	14	14	551	541	76	52
Farming, forestry, and fishing occupations	902	245	524	213	6	—	27	13	345	19
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	142	119	125	110	—	—	—	—	—	—
Related agricultural occupations	444	93	342	87	6	—	20	6	76	9
Supervisors, related agricultural occupations	7	—	7	—	—	—	—	—	—	—
Groundkeepers and gardeners, except farm	351	47	264	47	6	—	7	—	74	—
Animal caretakers, except farm	86	46	71	40	—	—	13	6	2	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—
Auto and home supply stores	—	—	—	—	—	—	—	—	—	—
Motor vehicle dealers	—	—	—	—	—	—	—	—	—	—
Food stores, n.e.c.	—	—	—	—	—	—	—	—	—	—
Retail bakeries	—	—	—	—	—	—	—	—	—	—
Food stores, n.e.c.	—	—	—	—	—	—	—	—	—	—
Motor vehicle dealers	—	—	—	—	—	—	—	—	—	—
Auto and home supply stores	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Retail trade—Con.									
	Food stores									
	Total		Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.										
Forestry and logging occupations	37	13	30	6	—	—	7	7	—	—
Supervisors, forestry and logging workers	26	7	19	—	—	—	7	7	—	—
Tree nursery workers, except logging	11	6	11	—	—	—	—	—	—	—
Trappers and logging occupations	279	20	27	10	—	—	—	—	252	10
Fishers, hunters, and trappers	13	12	—	—	—	—	—	—	13	—
Captains and other officers, fishing vessels	258	12	19	2	—	—	—	—	239	10
Fishers	8	8	8	—	—	—	—	—	—	—
Hunters and trappers	264	42	184	24	2	1	45	14	32	2
Precision production, craft, and repair occupations	595	336	345	82	2	2	362	14	259	7
Mechanics and repairers	8	8	6	2	412	5	853	21	884	34
Automobile and light equipment mechanics	425	310	276	250	—	—	—	—	19	—
Mechanics and repairers, except supervisors	634	382	503	46	25	5	59	12	47	19
Mechanics and repairers, except supervisors	7	228	5	204	387	9	794	9	837	15
Vehicle and mobile equipment mechanics and repairers	2	18	1	18	180	—	388	—	237	—
Automobile mechanics	1	14	1	14	155	—	306	—	223	—
Bus, truck, and stationary engine mechanics	545	14	425	—	2	—	61	—	44	—
Aircraft engine mechanics	14	—	—	—	—	—	—	—	12	—
Small engine repairers	15	—	15	—	—	—	—	—	396	5
Automobile body and related repairers	86	—	51	—	6	—	21	—	44	—
Aircraft mechanics, except engine	340	4	340	4	—	—	—	—	33	—
Heavy equipment mechanics	39	—	17	—	2	—	—	—	685	55
Farm equipment mechanics	1	21	876	7	70	6	256	6	963	8
Industrial machinery repairers	1	21	38	21	—	—	15	—	121	—
Machinery maintenance occupations	137	21	110	—	6	—	11	—	641	32
Electrical and electronic equipment repairers	52	8	52	8	—	—	—	—	310	—
Electronic repairers, communications and industrial equipment	15	5	15	5	—	—	—	—	11	—
Data processing equipment repairers	51	5	24	—	6	—	11	—	77	—
Household appliance and power tool repairers	14	8	14	8	—	—	—	—	25	—
Telephone line installers and repairers	—	—	—	—	—	—	—	—	6	—
Miscellaneous electrical and electronic equipment repairers	5	—	5	—	—	—	—	—	14	—
Heating, air conditioning, and refrigeration mechanics	1	5	1	5	—	—	—	—	212	12
Miscellaneous mechanics and repairers	1	163	1	153	85	—	11	—	128	20
Camera, watch, and musical instrument repairers	5	—	5	—	39	—	113	3	2	—
Locksmiths and safe repairers	34	3	34	3	—	—	—	—	27	7
Office machine repairers	120	73	117	70	—	—	3	3	8	—
Mechanical controls and valve repairers	8	6	8	6	—	—	—	—	30	6
Elevator installers and repairers	19	—	19	—	—	—	—	—	21	—
Millwrights	22	—	14	—	—	—	—	—	124	8
Specified mechanics and repairers, n.e.c.	724	27	576	20	21	—	17	—	1	—
Not specified mechanics and repairers	1	54	791	54	18	—	93	—	1	—
Construction trades	3	66	2	56	86	—	136	10	175	34
Supervisors, construction occupations	503	4	445	4	25	—	13	—	77	—
Supervisors, bricklayers, stonemasons, and tile setters	—	—	—	—	—	—	—	—	20	9
Supervisors, carpenters and related workers	35	2	35	2	—	—	—	—	1	—
Supervisors, electricians and power transmission installers	11	—	11	—	—	—	—	—	—	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	7	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	450	2	399	2	25	—	6	—	77	9
Construction trades, except supervisors	2	62	2	52	61	—	123	10	155	25
Bricklayers and masons	32	—	32	—	—	—	—	—	—	—
Tile setters, floor and wall	19	—	19	—	—	—	—	—	—	—
Carpent installers	6	—	6	—	—	—	—	—	—	—
Carpenters	1	16	1	11	31	—	25	5	104	6
Driveway installers	21	—	27	—	—	—	—	—	300	—
Electricians	549	—	452	—	30	—	34	—	289	—
Electrical power installers and repairers	312	8	312	8	—	—	37	—	990	19
Painters	3	—	3	—	—	—	—	—	—	—
Popover installers	2	—	2	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.

United States

	Food stores										Auto and home supply stores	
	Grocery stores				Dairy products stores		Retail bakeries		Food stores, n.e.c.		Motor vehicle dealers	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Construction trades—Con.												
Construction trades, except supervisors—Con.												
Plasterers	223	18	184	13	—	—	27	5	12	—	30	—
Pumbers, pipefitters, and steamfitters	32	5	32	5	—	—	—	—	—	—	—	—
Concrete and terrazzo finishers	—	—	—	—	—	—	—	—	—	—	—	—
Glaziers	8	—	8	—	—	—	—	—	—	—	27	—
Insulation workers	—	—	—	—	—	—	—	—	—	—	6	—
Paving, surfacing, and tamping equipment operators	10	—	10	—	—	—	—	—	—	—	1	—
Roofers	7	—	7	—	—	—	—	—	—	—	24	—
Sheetmetal duct installers	2	—	2	—	—	—	—	—	—	—	8	—
Structural metal workers	35	9	35	9	—	—	—	—	—	—	33	—
Drillers, earth	48	11	48	11	—	—	—	—	—	—	19	—
Construction trades, n.e.c.	—	—	—	—	—	—	—	—	—	—	11	—
Supervisors, extractive occupations	13	5	13	5	—	—	—	—	—	—	—	—
Drillers, oil well	—	—	—	—	—	—	—	—	—	—	—	—
Explosives workers	—	—	—	—	—	—	—	—	—	—	—	—
Mining machine operators	35	6	35	6	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Extractive occupations	252 864	41 949	175 160	23 765	2 131	1 049	44 373	14 377	31 200	2 758	15 547	7 458
Precision production occupations	27 932	5 534	23 589	4 312	801	269	1 744	524	1 798	429	7 317	324
Supervisors, production occupations	591	84	347	25	20	—	143	38	81	21	738	18
Precision manufacturing occupations	35	12	23	12	—	—	12	12	—	—	6	—
Tool and die makers	86	18	65	17	—	—	—	—	—	—	13	—
Precision assemblers, metal	385	46	192	7	20	—	131	26	42	13	624	18
Mechanists	19	6	19	6	—	—	—	—	—	—	19	—
Boilermakers	6	—	6	—	—	—	—	—	—	—	—	—
Precision grinders, filers, and tool sharpeners	—	—	—	—	—	—	—	—	—	—	—	—
Patternmakers and model makers, metal	—	—	—	—	—	—	—	—	—	—	—	—
Lay-out workers	21	—	13	—	—	—	—	—	8	—	7	—
Precious stones and metals workers (jewelers)	16	2	14	—	—	—	—	—	2	2	2	—
Engravers, metal	—	—	—	—	—	—	—	—	—	—	8	—
Steel metal workers	23	—	15	—	—	—	—	—	8	—	52	—
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	—	—	—	—
Precision woodworking occupations	56	—	28	—	—	—	28	—	—	—	42	15
Patternmakers and model makers, wood	—	—	—	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	39	—	23	—	—	—	16	—	—	—	1	—
Furniture and wood finishers	17	—	5	—	—	—	12	—	—	—	29	15
Miscellaneous precision woodworkers	—	—	—	—	—	—	—	—	—	—	12	—
Precision textile, apparel, and furnishings machine workers	280	67	229	65	6	—	20	—	25	2	306	10
Tailors	191	45	171	43	—	—	7	—	13	—	22	—
Dressmakers	26	13	13	13	—	—	13	—	—	—	282	10
Upholsterers	6	—	6	—	—	—	—	—	—	—	—	—
Shoe repairers	11	—	11	—	—	—	—	—	—	—	—	—
Apparel and fabric patternmakers	34	9	34	9	—	—	—	—	—	—	2	—
Miscellaneous precision apparel and fabric workers	12	—	—	—	—	—	—	—	12	—	—	—
Precision workers, assorted materials	196	35	133	33	2	—	33	2	28	—	38	—
Hand molders and shapers, except jewelers	12	—	6	—	—	—	—	—	12	—	—	—
Patternmakers, lay-out workers, and cutters	6	—	6	—	—	—	—	—	—	—	—	—
Optical goods workers	43	5	37	5	—	—	6	—	—	—	8	—
Dental laboratory and medical appliance technicians	42	17	24	17	—	—	18	—	—	—	—	—
Bookbinders	6	—	6	—	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	22	2	15	—	—	—	2	—	5	—	11	—
Miscellaneous precision occupations, n.e.c.	65	11	45	11	2	—	7	—	11	—	19	—
Precision food production occupations	223 078	36 194	150 289	19 303	1 292	780	42 331	13 805	29 166	2 306	74	14
Butchers and meat cutters	161 957	10 415	133 912	8 671	32	9	247	11	27 766	1 724	59	15
Bakers	59 181	24 979	16 212	10 566	465	422	41 762	13 714	658	277	59	14
Food batchmakers	1	800	165	66	795	349	322	80	2	305	6 965	723
Precision inspectors, testers, and related workers	52	2	50	2	—	—	—	—	2	—	—	—
Inspectors, testers, and graders	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																				
Retail trade—Con.																				
Food stores																				
Total			Grocery stores			Dairy products stores			Retail bakeries			Food stores, n.e.c.			Motor vehicle dealers			Auto and home supply stores		
Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
679	33	25	495	25	10	—	—	—	74	8	—	100	—	—	67	10	—	46	—	—
2	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
637	33	25	469	25	10	—	—	—	74	8	—	84	—	—	45	10	—	39	—	—
40	—	—	24	—	—	—	—	—	—	—	—	16	—	—	22	—	—	7	—	—
624 693	152 537	136 417	573 150	20 578	6 577	6 577	678	—	20 578	6 864	—	24 388	8 578	—	73 283	4 596	—	52 473	4 303	—
18 334	7 553	3 381	9 296	466	128	466	128	—	4 901	2 291	—	3 671	1 753	—	12 912	618	—	5 750	587	—
9 790	3 648	1 679	5 022	9	9	343	77	—	2 334	976	—	2 091	936	—	10 575	373	—	3 869	321	—
104	34	14	69	—	—	9	—	—	21	11	—	5	—	—	291	12	—	282	25	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	—	—	47	8	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	—	—	10	—	—
45	25	14	34	14	—	—	—	—	11	11	—	—	—	—	15	5	—	12	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22	—	—	32	8	—
39	9	—	25	—	9	9	9	—	—	—	—	5	—	—	222	7	—	163	9	—
3	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	7	—	—	—	—	—	10	—	—	—	—	—	—	—	—	18	—	—
8	8	8	8	8	—	—	—	—	—	—	—	—	—	—	—	—	—	7	—	—
30	12	10	28	10	—	—	—	—	2	2	—	—	—	—	48	2	—	117	8	—
20	2	—	18	—	—	—	—	—	2	—	—	—	—	—	28	2	—	87	8	—
4	4	4	4	4	—	—	—	—	—	—	—	—	—	—	15	—	—	30	—	—
6	6	6	6	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Machine operators and tenders, except precision

Machine operators and tenders, except precision

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Machine operators and tenders, except precision

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A)

United States

Retail trade—Con.

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.

Machine operators, assemblers, and inspectors—Con.

Machine operators and tenders, except precision—Con.

Machine operators, assorted materials—Con.

Folding machine operators

Forming, lathe, and oven operators, except food

Crushing and grinding machine operators

Slicing and cutting machine operators

Motion picture projectionists

Photographic process machine operators

Miscellaneous machine operators, n.e.c.

Machine operators, not specified

Fabricators, assemblers, and hand working occupations

Welders and cutters

Solders and brazers

Assemblers

Hand cutting and trimming occupations

Hand molding, casting, and forming occupations

Hand painting, coating and decorating occupations

Hand engraving and printing occupations

Hand grinding and polishing occupations

Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers

Production inspectors, checkers, and examiners

Production testers

Production samplers and weighers

Production sorters, except optical

Graders and sorters, except optical

Transportation and material moving occupations

Motor vehicle operators

Supervisors, motor vehicle operators

Truck drivers, heavy

Truck drivers, light

Driver-sales workers

Bus drivers

Taxicab drivers and chauffeurs

Parking lot attendants

Motor transportation occupations, n.e.c.

Rail transportation occupations

Railroad conductors and yardmasters

Locomotive operating occupations

Railroad brake, signal, and switch operators

Rail vehicle operators, n.e.c.

Water transportation occupations

Ship captains and mates, except fishing boats

Sailors and deckhands

Marine engineers

Bridge, lock, and lighthouse tenders

Material moving equipment operators

Supervisors, material moving equipment operators

Operating engineers

Longshore equipment operators

Hoist and winch operators

Crane and tower operators

Excavating and loading machine operators

Grader, dozer, and scraper operators

Industrial truck and tractor equipment operators

Miscellaneous material moving equipment operators

Total

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

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Total

Female

Total

Female

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con-
struction
Handlers, equipment cleaners, helpers, and laborers
Helpers, construction trades
Supervisors, handlers, equipment cleaners, and laborers,
n.e.c.
Helpers, mechanics and reporters
Helpers, construction and extractive occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations

Construction laborers
Production helpers
Freight, stock, and material handlers
Garbage collectors
Stereos
Stock handlers and loaders
Machine feeders and operators
Freight, stock, and material handlers, n.e.c.

Garage and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Retail trade—Con.													
Food stores													
Total	Female	Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.		Motor vehicle dealers		Auto and home supply stores	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
553 979	143 324	530 405	131 981	1 856	433	8 639	4 343	13 079	6 567	44 213	2 213	31 052	1 276
45	19	32	19	7	—	—	—	6	—	26	—	6	—
167	12	132	10	—	—	14	—	21	5	1 133	9	229	15
80	10	78	10	—	—	—	—	2	—	30	—	62	19
78	10	72	—	—	—	—	—	2	—	30	—	43	—
2	—	2	—	—	—	—	—	—	—	—	—	19	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
303	7	237	7	3	—	36	—	27	—	35	—	36	—
6 458	2 930	2 254	1 075	8	—	3 792	1 738	404	—	849	53	1 222	41
458 649	87 024	451 634	85 136	933	114	2 294	1 132	3 788	642	1 223	96	2 909	284
43	7	37	7	—	—	6	—	—	—	6	—	—	—
20	—	9	—	—	—	11	5	—	—	—	—	—	—
447 322	84 425	443 229	83 455	541	105	593	282	2 959	583	772	72	2 398	263
3 106	2 215	1 721	1 367	—	—	1 338	820	47	—	44	10	—	—
8 158	369	6 638	304	392	9	346	25	782	31	401	14	511	21
1 041	107	910	98	23	—	72	8	36	1	13 110	570	21 461	209
4 018	727	3 701	650	39	15	172	31	106	31	22 977	1 12	43 381	32
56 853	48 199	49 643	42 368	271	212	1 531	1 173	5 406	4 446	4 694	272	4 379	239
26 365	4 289	21 784	2 611	572	92	728	261	3 281	1 323	—	—	—	427

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Can.													
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
627 240	104 851	79 235	16 504	727 368	542 214	168 148	82 712	500 879	184 813	335 844	99 341	4 181 272	2 491 752
29 876	5 404	10 818	1 916	86 611	52 116	20 640	5 873	78 412	33 491	52 101	12 920	583 365	205 809
28 361	5 149	10 314	1 832	78 786	47 093	19 941	5 570	51 977	14 901	40 903	9 081	557 182	196 709
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
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—	—	—	—	—	—	—	—	—	—	—	—</		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Employed persons 16 years and over—Con.													
Managerial and professional specialty occupations—Con.													
Professional specialty occupations—Con.													
Natural scientists													
138	17	—	—	34	10	—	—	18	6	67	20	159	109
11	—	—	—	5	—	—	—	—	—	16	—	6	6
30	5	—	—	16	10	—	—	4	—	18	12	46	20
2	—	—	—	13	—	—	—	6	6	14	—	—	—
93	10	—	—	—	—	—	—	—	—	8	—	—	—
—	—	—	—	—	—	—	—	8	—	8	8	83	80
2	—	—	—	—	—	—	—	—	—	3	—	3	3
—	—	—	—	—	—	—	—	—	—	—	—	20	—
—	—	—	—	—	—	—	—	—	—	—	—	1	—
38	20	13	—	24	12	19	—	23	17	23	—	37	5
11	—	6	—	6	6	6	—	10	—	10	—	20	—
27	20	—	—	6	6	—	—	23	17	6	—	12	—
—	—	7	—	12	—	13	—	—	—	7	—	5	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
37	7	—	—	127	67	42	13	195	92	264	21	956	731
7	—	—	—	22	22	13	13	74	59	6	—	59	54
30	—	—	—	100	40	29	—	110	27	258	21	131	25
—	—	—	—	—	—	—	—	6	6	—	—	748	646
—	—	—	—	5	5	—	—	—	—	—	—	18	6
—	—	—	—	—	—	—	—	5	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
47	10	234	—	12	2	16	8	19	6	60	31	117	62
48	—	—	28	152	128	14	7	130	104	4 781	2 371	541	341
—	—	—	—	8	—	—	—	5	5	—	—	7	—
—	—	100	17	—	—	7	—	—	—	—	—	—	—
—	—	134	11	144	128	7	7	125	99	4 772	2 371	534	334
48	—	—	—	—	—	—	—	—	—	29	16	15	2
17	17	7	7	57	43	15	—	26	26	42	38	25	25
17	17	7	7	57	43	15	—	21	21	35	31	25	25
—	—	—	—	—	—	15	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
258	40	8	—	123	67	13	6	77	29	498	148	445	213
250	40	8	—	123	67	13	6	71	29	480	140	409	207
8	—	—	—	—	—	—	—	6	—	10	8	6	—
—	—	—	—	—	—	—	—	—	—	—	—	18	6
—	—	—	—	—	—	—	—	—	—	—	—	6	—
—	—	—	—	—	—	—	—	—	—	—	—	6	—
—	—	—	—	—	—	—	—	—	—	—	—	6	—
11	—	—	—	24	22	14	—	61	27	38	6	164	96
11	—	—	—	24	22	14	—	33	12	6	6	78	69
—	—	—	—	—	—	—	—	15	9	17	—	24	17
—	—	—	—	—	—	—	—	7	6	15	—	45	—
—	—	—	—	—	—	—	—	6	6	—	—	17	10
108	25	6	—	63	17	21	—	39	—	37	6	337	75
108	25	6	—	63	17	21	—	39	—	37	6	337	75
—	—	—	—	—	—	—	—	—	—	—	—	—	—
147	55	110	43	6 638	4 477	397	239	25 529	18 181	1 803	643	22 287	7 293
—	—	—	—	6	—	—	—	29	20	19	6	14	6
5	5	—	—	20	7	6	—	29	19	77	11	51	9
17	—	51	12	5 704	3 866	223	118	24 475	17 581	435	171	579	261
2	—	—	—	14	11	—	—	34	34	401	131	1 027	1 648
—	—	—	—	16	—	—	—	6	—	5	—	377	161
16	6	16	16	369	290	60	34	494	249	176	109	179	79
—	—	—	—	43	24	18	12	71	20	173	27	92	42
7	—	—	—	—	—	—	—	79	41	35	—	2 534	2 333
—	—	—	—	70	37	6	6	180	107	17	17	3 140	1 054
12	—	—	—	175	190	37	37	322	162	322	102	1 405	1 264
86	39	35	15	50	—	—	—	—	—	43	12	2 564	1 361
—	—	—	—	—	—	—	—	—	—	—	—	20	20

Employed persons 16 years and over—Con.
Managerial and professional specialty occupations—Con.
Professional specialty occupations—Con.

Natural scientists
Physicists and astronomers
Chemists, except biochemists
Atmospheric and space scientists
Geologists and geodesists
Physical scientists, n.e.c.
Agricultural and food scientists
Biological and life scientists
Forestry and conservation scientists
Medical scientists
Health diagnosing occupations
Physicians
Dentists
Veterinarians
Optometrists
Podiatrists
Health diagnosing practitioners, n.e.c.
Health assessment and treating occupations
Registered nurses
Pharmacists
Dietitians
Therapists
Physicians' assistants
Teachers, postsecondary
Teachers, postsecondary
Teachers, prekindergarten and kindergarten
Teachers, elementary and secondary school
Teachers, special education
Teachers, n.e.c.
Counselors, educational and vocational
Librarians, archivists, and curators
Archivists and curators
Social scientists and urban planners
Economists
Psychologists
Sociologists
Social scientists, n.e.c.
Urban planners
Social, recreation, and religious workers
Social workers
Recreation workers
Clergy
Religious workers, n.e.c.
Lawyers and judges
Lawyers
Judges
Writers, artists, entertainers, and athletes
Authors
Technical writers
Designers
Musicians and composers
Actors and directors
Painters, sculptors, craft-artists, and artist printmakers
Photographers
Dancers
Artists, performers, and related workers, n.e.c.
Editors and reporters
Announcers
Athletes

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.

United States	Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations.....	209 879	73 355	40 647	13 582	556 454	440 518	137 132	74 260	255 102	128 684	200 633	80 741	396 177	328 520
Technicians and related support occupations.....	1 012	247	528	57	881	227	220	110	1 114	391	5 019	881	1 911	583
Health technicians and technicians.....	14	6	—	—	—	—	24	19	86	79	47	19	216	154
Health laboratory technicians and technicians.....	6	—	—	—	—	—	—	—	7	—	—	3	14	7
Dental hygienists.....	—	—	—	—	—	—	—	—	—	—	—	—	17	6
Health record technicians and technicians.....	—	—	—	—	—	—	—	—	6	6	9	9	13	7
Radiologic technicians.....	—	—	—	—	—	—	—	—	6	6	7	7	13	7
Licensed practical nurses.....	—	—	—	—	—	—	—	—	67	67	7	7	59	57
Health technicians and technicians, n.e.c.....	8	—	—	—	—	—	5	19	—	—	21	—	107	63
Engineering and related technicians and technicians.....	268	33	168	4	194	72	26	26	426	119	1 799	135	483	76
Electrical and electronic technicians.....	18	6	96	—	63	23	—	—	145	9	1 575	111	112	21
Industrial engineering technicians.....	10	—	—	—	26	13	—	—	—	—	—	—	13	—
Mechanical engineering technicians.....	7	—	—	—	—	—	—	—	54	10	3	—	56	—
Engineering technicians, n.e.c.....	54	—	62	7	90	21	21	21	217	100	153	14	194	44
Drafting occupations.....	131	27	10	4	8	—	3	5	10	—	—	—	31	—
Surveying and mapping technicians.....	8	—	—	—	—	—	—	—	—	—	—	—	—	—
Science technicians.....	24	—	6	6	36	15	6	6	4	2	39	10	125	70
Biological technicians.....	—	—	—	—	—	—	—	—	—	—	—	—	32	22
Chemical technicians.....	15	—	—	—	15	—	6	6	—	—	3	—	29	12
Science technicians, n.e.c.....	9	—	6	6	21	15	—	—	4	2	36	10	64	36
Technicians, except health, engineering, and science.....	706	208	354	47	651	140	164	59	598	191	3 134	717	1 087	283
Airplane pilots and navigators.....	88	—	186	6	2	—	—	—	68	13	—	—	69	—
Air traffic controllers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators.....	12	—	3	3	—	—	—	—	8	—	205	9	173	17
Computer programmers.....	273	94	28	15	498	86	134	47	333	135	2 164	659	429	130
Tool programmers, numerical control.....	25	17	—	2	11	—	10	—	10	—	18	—	13	43
Legal assistants.....	141	78	35	23	82	38	7	—	93	36	7	—	72	43
Technicians, n.e.c.....	167	19	102	—	58	14	23	12	96	7	733	46	331	93
Sales occupations.....	166 360	37 610	29 139	4 060	483 988	380 719	124 551	64 678	183 326	69 756	144 855	38 062	313 765	260 893
Supervisors and proprietors, sales occupations.....	124 232	11 398	9 118	749	89 428	54 520	25 903	7 255	47 591	10 982	37 657	5 541	23 960	8 370
Salaried.....	62 831	7 503	6 386	330	67 215	40 032	22 248	6 220	29 083	6 224	25 572	3 577	16 847	5 771
Self-employed.....	61	3 895	2 732	419	22 213	13 488	3 655	1 035	18 508	4 758	12 085	1 964	7 113	2 599
Sales representatives, finance and business services.....	122	18	37	3	709	551	154	81	365	232	151	44	510	225
Insurance sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations.....	102	13	11	—	440	341	95	51	160	93	23	—	335	97
Securities and financial services sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations.....	20	5	26	3	269	210	59	30	205	139	128	44	175	128
Sales occupations, other business services.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail.....	26	8	48	—	5	5	7	—	15	—	403	7	—	—
Sales engineers.....	26	8	48	—	5	5	7	—	15	—	403	7	—	—
Sales representatives, mining, manufacturing, and wholesale.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services.....	41 923	26 171	19 906	3 303	392 608	324 492	98 457	57 312	134 489	58 082	105 944	31 902	289 106	252 172
Sales workers, commodities.....	3 338	237	19 600	3 090	363 045	296 280	91 331	50 640	130 214	54 317	100 813	27 826	34 185	23 289
Sales counter clerks.....	61	26	33	11	28 843	27 615	369	219	34	32	174	49	373	278
Cashiers.....	38 497	25 895	224	191	28 843	27 615	6 700	6 407	3 647	3 297	4 100	3 350	254 073	228 370
Street and door-to-door sales workers.....	21	7	44	6	254	226	20	13	512	390	870	653	346	181
News vendors.....	6	6	5	5	92	79	37	33	62	46	87	24	129	74
Sales related occupations.....	57	15	30	5	1 238	1 151	30	30	366	460	700	568	189	126
Demonstrators, promoters and models, sales.....	6	—	30	5	107	100	—	—	322	308	680	556	118	86
Auctioneers.....	—	—	—	—	113	94	—	—	16	—	—	—	2	—
Sales support occupations, n.e.c.....	51	15	—	—	1 018	957	30	30	528	152	20	12	69	40
Administrative support occupations, including clerical.....	42 507	35 498	10 980	9 465	71 585	59 572	12 361	9 472	70 662	58 537	50 759	41 798	80 501	67 044
Supervisors, administrative support occupations.....	1 181	470	315	172	4 262	2 095	838	489	2 591	1 489	1 722	1 011	4 388	2 836
Supervisors, general office.....	647	278	282	159	2 692	3 070	588	392	1 456	992	1 182	753	3 235	2 172
Supervisors, computer equipment operators.....	73	24	—	64	104	64	51	—	11	11	75	5	48	26
Supervisors, financial records processing.....	418	168	13	13	913	699	97	71	684	388	282	196	747	497
Chief communications operators.....	4	—	—	—	12	12	—	—	2	—	10	10	30	14
Supervisors; distribution, scheduling, and adjusting clerks.....	39	—	20	—	541	200	102	44	438	98	173	47	328	127
Computer equipment operators.....	831	465	88	74	1 193	850	183	80	859	651	1 044	531	839	536
Computer operators.....	798	444	88	74	1 096	799	180	77	824	616	1 007	531	819	530
Peripheral equipment operators.....	33	21	—	—	97	51	3	3	35	35	37	—	20	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Retail trade—Con.													
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
6 769	6 637	3 669	3 650	6 741	6 595	1 767	1 744	14 862	14 629	13 723	13 403	16 283	15 804
6 322	6 201	3 508	3 489	5 914	5 812	1 567	1 544	13 860	13 649	12 820	12 741	15 613	15 162
84	84	8	8	34	34	18	18	32	32	12	12	41	30
363	352	153	153	793	749	182	182	970	956	891	850	629	612
597	500	341	317	1 955	1 848	237	212	3 118	2 962	2 193	2 056	2 325	2 178
95	62	31	31	880	804	58	33	987	894	234	177	46	41
—	—	—	—	—	—	—	—	—	—	—	—	—	—
43	21	12	12	14	9	—	—	14	14	25	25	205	156
326	307	237	220	891	877	164	164	1 736	1 702	1 439	1 424	1 614	1 568
133	110	61	54	170	158	15	15	352	332	495	430	460	413
664	486	270	180	2 636	2 255	450	353	2 067	1 636	1 918	1 361	4 346	3 488
—	—	—	—	97	77	19	19	87	82	71	47	105	75
20	14	7	7	35	30	6	6	4	4	23	23	4	4
278	141	179	95	1 761	1 451	262	182	1 229	869	1 187	732	3 456	2 541
62	62	6	6	143	143	30	30	90	90	40	40	351	238
6	—	—	—	—	—	—	—	—	—	—	—	—	—
165	155	70	64	451	411	120	109	589	538	563	492	373	362
133	114	8	8	149	143	13	7	68	53	34	27	57	32
23 314	21 524	4 017	3 726	22 518	20 872	3 813	3 586	24 747	23 314	15 555	14 489	34 197	31 028
22 649	20 966	3 953	3 668	20 176	18 802	3 392	3 214	23 718	22 434	14 892	13 934	30 965	28 430
323	312	3	3	751	685	254	242	328	306	216	197	706	557
264	222	39	39	612	556	115	98	482	425	341	305	338	302
53	11	17	11	858	734	32	12	161	97	88	38	599	367
25	13	5	5	121	95	20	20	58	52	18	15	372	372
92	59	—	—	128	75	106	59	65	49	54	48	387	184
20	8	—	—	33	22	43	15	12	12	13	13	35	6
18	18	—	—	62	46	63	44	22	18	28	28	72	65
54	33	—	—	749	749	63	61	540	526	325	301	514	457
132	120	37	37	742	742	61	61	540	526	325	301	486	442
132	120	37	37	7	7	2	2	—	—	—	—	10	4
—	—	—	—	—	—	—	—	—	—	—	—	18	11
—	—	—	—	—	—	—	—	—	—	—	—	18	11
—	—	—	—	928	485	221	103	940	200	636	151	989	190
391	161	57	6	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	722	395	171	82	534	156	465	117	302	78
146	38	34	6	206	90	50	21	406	44	171	34	687	112
—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 933	707	844	191	17 513	11 120	2 677	1 002	9 024	3 179	5 773	2 051	6 402	2 968
426	83	13	7	34	19	10	10	135	18	307	201	190	103
436	226	30	13	999	906	179	120	688	290	170	170	760	524
205	168	24	27	6 150	3 316	575	186	3 022	536	1 873	388	743	90
495	137	488	144	7 238	4 158	1 680	528	4 225	1 662	2 629	879	2 502	565
—	—	—	—	—	—	—	—	—	—	—	—	—	—
37	11	—	—	283	188	24	11	117	15	76	49	394	286
3	—	—	—	6	6	—	—	—	—	—	—	—	—
314	197	42	—	849	775	91	62	761	595	451	249	1 702	1 210
—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	5	27	53	1 954	1 752	113	85	76	63	141	115	266	160
658	252	109	—	1 527	1 256	76	59	2 099	1 129	1 177	626	764	439
—	—	—	—	—	—	—	—	—	—	—	—	—	—
291	141	86	30	926	778	59	49	988	696	747	357	547	289
—	—	—	—	64	31	—	—	88	35	13	13	43	29
367	111	17	17	537	447	19	10	1 068	398	417	256	174	121
5 945	4 117	1 233	1 059	11 435	10 397	1 928	1 706	9 750	8 773	6 639	5 570	8 867	7 176
3 696	2 890	1 045	895	9 262	8 459	1 487	1 382	8 317	7 594	5 126	4 405	6 551	5 522
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	18	18	—	—	6	6	—	—	43	26
—	—	—	—	1 245	1 213	245	226	841	836	809	755	786	745
334	231	23	23	1 349	1 263	64	49	155	119	264	168	177	106
346	154	95	42	545	414	112	49	465	294	425	236	561	343

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.

United States	Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	6 937	2 747	1 111	252	11 467	4 949	1 093	338	7 080	3 487	2 741	864	3 126 691	1 935 363
Private household occupations	302	7	90	—	2 258	1 116	183	53	396	62	213	33	4 385	491
Protective service occupations	15	—	—	—	69	32	10	—	35	—	14	—	27	11
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	15	—	—	—	69	32	10	—	35	—	14	—	12	—
Supervisors, police and detectives	18	—	—	—	—	—	—	—	—	—	6	—	—	—
Supervisors, guards	4	—	—	—	—	—	—	—	—	—	6	—	—	—
Firefighting and fire prevention occupations	14	—	—	—	—	—	—	—	—	—	—	—	—	—
Freightlifting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	269	7	90	—	2 189	1 084	173	53	361	62	193	33	4 346	480
Guards	269	7	90	—	2 183	1 078	169	49	361	62	193	33	4 223	405
Crossing guards	—	—	—	—	6	6	4	4	—	—	—	—	118	74
Guards and police, except public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	6 635	2 740	1 021	252	9 209	3 833	910	285	6 684	3 425	2 528	831	3 122 306	1 934 872
Food preparation and service occupations	2 650	2 098	82	41	790	613	87	87	267	201	245	185	3 040 448	1 905 940
Supervisors, food preparation and service occupations	36	30	12	3	42	16	—	—	30	10	12	—	150 438	81 883
Bar tenders	45	25	4	4	21	2	—	—	20	—	—	—	233 406	103 533
Waiters and waitresses	1 011	940	4	4	261	250	24	24	55	49	73	55	1 154 327	1 024 699
Cooks, except short order	855	717	25	20	209	162	37	37	112	103	79	58	1 154 327	1 024 699
Short-order cooks	71	67	6	6	6	6	—	—	2	2	29	20	159 170	130 313
Food counter, fountain and related occupations	112	79	17	8	46	34	10	10	12	12	19	19	152 651	130 313
Kitchen workers, food preparation	21	14	18	3	38	30	11	11	12	12	2	2	140 695	47 271
Waiters and waitresses, assistants	73	13	18	3	46	33	5	5	36	25	31	31	299 038	119 502
Miscellaneous food preparation occupations	426	213	7	7	121	80	—	—	—	—	—	—	—	—
Health service occupations	18	3	7	7	18	18	—	—	169	149	7	7	1 504	841
Dental assistants	—	—	—	—	10	10	—	—	45	31	—	—	56	26
Health aides, except nursing	18	3	7	7	10	8	—	—	124	118	7	7	949	504
Nursing aides, orderlies, and attendants	—	—	—	—	8	8	—	—	—	—	—	—	499	311
Cleaning and building service occupations, except household	3 846	564	902	185	6 846	1 832	698	134	5 801	2 649	2 142	525	65 033	16 484
Supervisors, cleaning and building service workers	93	14	14	31	177	492	20	20	57	24	13	13	633	137
Maid and housemen	262	154	77	31	1 177	492	100	35	1 400	825	313	139	10 443	4 526
Janitors and cleaners	3 491	410	802	134	5 317	1 155	561	83	4 299	1 786	1 805	381	53 822	11 784
Elevator operators	—	—	—	—	274	174	17	5	45	14	11	5	130	37
Pest control occupations	—	—	9	9	5	5	—	—	—	—	—	—	5	—
Personal service occupations	121	75	30	19	1 555	1 370	125	64	447	426	134	114	15 321	11 407
Supervisors, personal service occupations	5	5	7	7	26	21	12	6	8	8	16	9	66	27
Barbers	24	8	—	—	16	16	19	13	28	28	4	4	27	55
Hairstylists and cosmetologists	33	19	2	2	586	514	7	7	4	4	15	9	595	303
Attendants, amusement and recreation facilities	—	—	2	2	7	7	—	—	15	11	14	7	152	65
Guides	—	—	—	—	9	9	—	—	—	—	—	—	50	20
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	7	7	—	—	44	42	—	—	39	39	22	22	741	569
Child care workers, except private household	52	36	19	19	867	777	87	38	353	344	61	61	13 583	10 558
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	168	30	82	—	73	19	22	—	137	23	36	—	947	227
Farm operators and managers	—	—	—	—	7	7	—	—	18	7	6	—	66	50
Farm occupations, except managerial	159	—	60	—	52	—	19	—	93	8	24	—	827	167
Related agricultural occupations	6	—	—	—	6	—	—	—	6	6	15	—	14	14
Supervisors, related agricultural occupations	125	13	53	—	46	—	—	—	74	8	2	—	797	144
Groundskeepers and gardeners, except farm	28	17	—	—	—	—	—	—	13	—	—	—	16	9
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Crofters and sorters, agricultural products	—	—	7	—	—	—	19	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States		Retail trade—(Con.)													
		Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Lining and drapery stores	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
9	—	—	—	—	—	14	12	—	—	19	8	—	—	35	10
2	—	—	—	—	—	—	—	—	—	—	—	—	—	9	—
2	—	—	—	—	—	14	12	—	—	14	8	—	—	15	4
5	—	22	—	—	—	—	—	—	—	7	—	—	—	11	—
—	—	5	—	—	—	—	—	—	—	—	—	—	—	19	—
—	—	17	—	—	—	—	—	—	—	—	—	—	—	—	—
121 271	1 547	21 246	384	45 622	30 645	—	—	—	—	94 279	11 149	62 610	2 620	24 439	7 724
113 306	848	19 232	155	1 157	157	—	—	—	—	3 734	115	53 100	974	4 151	419
111 706	797	18 879	13	1 761	130	—	—	—	—	243	6	442	12	388	104
106 994	732	16 827	122	372	15	—	—	—	—	3 491	109	52 658	962	3 763	315
101 942	704	4 142	8	249	15	—	—	—	—	185	7	1 091	16	583	59
690	—	634	6	18	—	—	—	—	—	59	7	860	16	444	53
120	—	1 081	7	—	—	—	—	—	—	16	16	—	—	10	—
135	—	10 567	94	19	—	—	—	—	—	22	8	79	—	10	—
3 989	28	223	7	33	9	—	—	—	—	23	20	20	—	12	—
79	—	155	—	26	6	—	—	—	—	—	—	99	—	16	—
14	—	2	—	27	—	—	—	—	—	18	—	—	—	—	—
1 340	12	432	—	172	16	—	—	—	—	144	9	444	35	1 131	72
130	—	100	—	104	11	—	—	—	—	2 266	12	42 105	661	263	35
252	—	319	5	—	—	—	—	—	—	—	—	—	—	—	—
73	—	233	—	43	6	—	—	—	—	815	7	21 677	243	75	—
14	—	5	—	—	—	—	—	—	—	32	—	1 644	25	25	—
92	—	31	—	48	—	—	—	—	—	1 352	5	18 239	295	39	—
—	—	—	—	—	—	—	—	—	—	13	—	—	—	6	—
16	—	10	—	5	5	—	—	—	—	44	—	221	4	25	—
57	—	40	—	8	—	—	—	—	—	20	—	304	9	91	28
429	—	25	—	58	—	—	—	—	—	156	—	4 567	55	308	—
2 541	53	1 176	15	275	24	—	—	—	—	740	81	4 427	195	1 443	145
7	—	2	—	7	—	—	—	—	—	25	—	1 510	75	21	—
17	—	8	—	22	—	—	—	—	—	14	—	18	—	57	13
107	5	5	—	2	—	—	—	—	—	14	—	139	7	90	48
2	—	7	—	26	—	—	—	—	—	6	—	43	—	21	—
88	—	38	—	5	—	—	—	—	—	34	8	26	—	8	—
1 452	15	736	10	121	18	—	—	—	—	13	43	38	14	25	25
861	23	373	—	89	6	—	—	—	—	319	37	1 256	37	421	53
1 083	56	622	44	684	69	—	—	—	—	315	24	1 377	62	793	—
271	20	37	—	52	8	—	—	—	—	48 061	804	4 227	54	3 900	418
2	—	—	—	—	—	—	—	—	—	175	—	162	—	451	12
11	—	8	—	6	8	—	—	—	—	11	—	—	—	5	5
—	—	—	—	—	—	—	—	—	—	47	—	—	—	6	—
—	—	—	—	—	—	—	—	—	—	5	—	87	—	7	—
257	20	29	—	38	—	—	—	—	—	—	—	—	—	—	—
812	36	585	44	632	61	—	—	—	—	104	—	73	—	426	—
6	—	—	—	13	7	—	—	—	—	47 886	804	4 065	54	3 449	406
8	—	—	—	4	—	—	—	—	—	1 442	6	6	—	50	5
6	—	8	—	56	—	—	—	—	—	1 469	433	80	—	12	—
228	7	373	25	282	15	—	—	—	—	36 934	433	284	12	2 110	12
4	—	—	—	6	—	—	—	—	—	4 391	62	284	12	2 110	12
134	—	53	15	60	7	—	—	—	—	171	5	2 580	29	361	7
77	2	127	—	145	18	—	—	—	—	13	—	150	6	470	31
—	—	—	—	—	—	—	—	—	—	34	96	72	—	7	—
—	—	—	—	—	—	—	—	—	—	460	—	—	—	31	—

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.	
Supervisors, forestry and logging workers	
Forestry workers, except logging	
Timber cutting and logging occupations	
Fisheries, hunting, and trapping	
Fishers, hunters, and trappers	
Conductors and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations	
Mechanics and repairers	
Supervisors, mechanics and repairers	
Mechanics and repairers, except supervisors	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationary engine mechanics	
Motor vehicle engine mechanics	
Automobile engine mechanics	
Automobile body and related repairers	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairers, communications and industrial equipment	
Data processing equipment repairers	
Household appliance and power tool repairers	
Telephone line installers and repairers	
Telephone installers and repairers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Camera, watch, and musical instrument repairers	
Locksmiths and safe repairers	
Office machine repairers	
Mechanical controls and valve repairers	
Elevator installers and repairers	
Millwrights	
Specialized mechanics and repairers, n.e.c.	
Not specified mechanics and repairers	
Construction trades	
Supervisors, construction occupations	
Supervisors, brickmasons, stonemasons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, r.e.c.	
Construction trades, except supervisors	
Brickmasons and stonemasons	
Tile setters, hard and soft	
Carpenters	
Painters	
Plumbers, pipefitters, and steamfitters	
Electric power installers and repairers	
Painters, construction and maintenance	
Paperhangers	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.															
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
235	19	13	—	33	—	—	—	14	—	8	—	35	—		
9	—	7	—	—	—	—	—	136	—	233	—	222	—		
20	8	—	—	—	—	—	—	32	2	10	—	5	—		
12	—	—	—	—	—	—	—	505	7	92	—	12	—		
6	—	—	—	—	—	—	—	70	—	—	—	19	—		
—	—	—	—	—	—	—	—	42	—	7	—	7	—		
—	—	—	—	—	—	—	—	7	—	185	—	7	—		
—	—	—	—	—	—	—	—	4	—	19	—	—	—		
62	—	—	—	33	14	—	—	3 293	159	333	—	58	7		
34	—	—	—	—	—	—	—	13	—	—	—	—	—		
32	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
2	—	—	—	—	—	—	—	7	—	—	—	—	—		
6 848	623	1 392	185	43 781	30 419	—	—	42 471	10 230	5 283	1 592	16 388	6 887		
5 306	484	969	109	7 551	4 186	—	—	6 706	1 149	3 393	650	7 491	4 019		
320	16	183	—	216	97	—	—	301	49	403	23	268	72		
5	—	—	—	—	—	—	—	6	—	24	—	—	—		
7	—	—	—	—	—	—	—	—	—	12	7	38	20		
257	16	146	—	80	33	—	—	100	—	110	11	150	46		
51	—	—	—	—	—	—	—	7	—	7	—	7	—		
—	—	—	—	18	9	—	—	—	—	—	—	13	—		
—	—	—	—	43	14	—	—	4	—	11	—	—	—		
—	—	—	—	47	28	—	—	22	7	—	—	—	—		
—	—	—	—	10	2	—	—	20	—	29	—	13	6		
—	—	—	—	11	11	—	—	49	26	7	5	—	—		
—	—	37	—	7	—	—	—	76	10	203	—	45	—		
—	—	—	—	—	—	—	—	10	—	—	—	2	—		
6	—	8	—	52	2	—	—	17 643	705	226	23	12	—		
—	—	—	—	18	—	—	—	19	—	42	—	—	—		
6	—	5	—	32	—	—	—	15 394	544	184	23	6	—		
—	—	—	—	—	2	—	—	2 209	161	—	—	—	—		
64	7	94	59	35 726	26 056	—	—	21	—	851	814	89	64		
51	7	40	31	18 074	10 074	—	—	17 421	8 224	6 451	734	61	50		
—	—	—	—	14 136	5 628	—	—	6 451	6 248	60	60	7	7		
7	—	27	15	72	38	—	—	22	35	8	—	17	7		
6	—	—	—	62	25	—	—	10 747	1 850	—	—	—	—		
—	—	—	—	31	—	—	—	17	—	5	—	4	—		
—	—	27	13	2 701	2 291	—	—	139	91	20	20	—	—		
80	6	12	12	102	34	—	—	111	43	149	51	45	16		
—	—	—	—	37	23	—	—	32	20	29	9	—	—		
—	—	—	—	42	5	—	—	17	7	—	—	—	—		
—	—	5	5	5	—	—	—	43	16	9	—	—	—		
6	—	7	7	7	—	—	—	—	—	17	11	34	7		
—	—	—	—	—	—	—	—	—	—	—	—	6	6		
74	—	—	—	6	6	—	—	—	—	59	25	5	3		
47	35	4	—	78	39	—	—	12	—	35	6	—	—		
21	21	9	—	61	33	—	—	253	60	14	6	8 218	2 696		
26	26	—	—	17	6	—	—	90	22	8	6	4 938	804		
—	—	—	—	—	—	—	—	19	8	6	—	2 321	1 401		
—	—	—	—	—	—	—	—	144	30	—	—	959	—		
485	53	84	5	—	—	—	—	37	—	37	6	32	15		
485	53	84	5	—	—	—	—	19	—	37	6	32	15		

United States

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Construction trades—Con.
Construction trades, except supervisors—Con.
Masters
Plumbers, pipefitters, and steamfitters
Concrete and terrazzo finishers
Glaziers
Insulation workers
Paving, surfacing, and tamping equipment operators
Roofers
Sheetmetal duct installers
Structural metal workers
Drillers, earth
Construction trades, n.e.c.
Extractive occupations
Supervisors, extractive occupations
Drillers, oil well
Explosives workers
Mining machine operators
Mining occupations, n.e.c.
Precision production occupations
Supervisors, production occupations
Precision metalworking occupations
Tool and die makers
Precision assemblers, metal
Machinists
Boilermakers
Precision grinders, filers, and tool sharpeners
Patternmakers and model makers, metal
Lay-out workers
Precision stones and metals workers (jewelers)
Engravers, metal
Sheet metal workers
Miscellaneous precision metal workers
Precision woodworking occupations
Patternmakers and model makers, wood
Cabinet makers and bench carpenters
Furniture and wood finishers
Miscellaneous precision woodworkers
Precision textile, apparel, and furnishings machine workers
Dressmakers
Tailors
Upholsterers
Shoe repairers
Apparel and fabric patternmakers
Miscellaneous precision apparel and fabric workers
Precision workers, assorted materials
Hood makers and shapers, except jewelers
Patternmakers, lay-out workers, and cutters
Optical goods workers
Dental laboratory and medical appliance technicians
Bookbinders
Electrical and electronic equipment assemblers
Miscellaneous precision workers, n.e.c.
Precision food production occupations
Butchers and meat cutters
Bakers
Food batchmakers
Precision inspectors, testers, and related workers
Precision inspectors, testers, and graders
Inspectors, testers, and graders
Adjusters and calibrators

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and masonry finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extrusive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade - (on

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.													
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Operators, fabricators, and laborers—Con.													
Machine operators, assemblers, and inspectors—Con.													
Machine operators and tenders, except precision—Con.													
Machine operators, assorted materials—Con.													
Folding machine operators													
Furnace, kiln, and oven operators, except food													
Crushing and grinding machine operators													
Slicing and cutting machine operators													
Motion picture projectionists													
Photographic process machine operators													
Miscellaneous machine operators, n.e.c.													
Machine operators, not specified													
Fabricators, assemblers, and hand working occupations													
Welders and cutters													
Soldiers and brazers													
Assemblers													
Hand cutting and trimming occupations													
Hand molding, casting, and forming occupations													
Hand painting, coating and decorating occupations													
Hand engraving and printing occupations													
Hand grinding and polishing occupations													
Miscellaneous hand working occupations													
Production inspectors, testers, samplers, and weighers													
Production inspectors, checkers, and examiners													
Production testers													
Production samplers and weighers													
Graders and sorters, except agricultural													
Transportation and material moving occupations													
Motor vehicle operators													
Supervisors, motor vehicle operators													
Truck drivers, heavy													
Truck drivers, light													
Truck salesmen													
Driver-sales workers													
Bus drivers													
Taxicab drivers and chauffeurs													
Parking lot attendants													
Motor transportation occupations, n.e.c.													
Rail transportation occupations													
Railroad conductors and yardmasters													
Locomotive operating occupations													
Railroad brake, signal, and switch operators													
Rail vehicle operators, n.e.c.													
Water transportation occupations													
Ship captains and mates, except fishing boats													
Sailors and deckhands													
Marine engineers													
Bridge, lock, and lighthouse tenders													
Material moving equipment operators													
Supervisors, material moving equipment operators													
Operating engineers													
Longshore equipment operators													
Hoist and winch operators													
Crane and tower operators													
Excavating and loading machine operators													
Grader, dozer, and scraper operators													
Industrial truck and tractor equipment operators													
Miscellaneous material moving equipment operators													

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction for meaning of symbols and introduction for definitions of terms; see appendix A.]

United States		Retail trade (con)													
		Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV and radio stores		Lining and drapery stores	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	Operators, fabricators, and laborers—Con.	241 162	21 327	2 030	211	13 507	5 737	4 176	942	18 353	1 317	5 639	951	16 298	6 142
	Handlers, equipment cleaners, helpers, and laborers	27	5	—	—	13	7	17	17	44	7	7	—	116	70
	Supervisors: handlers, equipment cleaners, and laborers	1 183	86	139	—	29	7	10	—	23	35	83	—	10	—
	n.e.c.	25	—	7	—	2	—	—	—	651	35	10	—	43	—
	Helpers, mechanics and repairers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Helpers, construction and extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Helpers, construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Helpers, service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Construction laborers	131	—	22	—	83	17	8	—	174	8	46	10	390	45
	Production helpers	125	2	59	6	89	45	—	—	35	59	306	9	202	109
	Freight, stock, and material handlers	2 052	190	124	26	8 651	3 092	3 168	578	7 353	337	2 261	221	4 888	864
	Garbage collectors	123	—	—	—	—	—	—	—	—	—	—	—	—	—
	Stock handlers and bidders	1 181	133	85	16	7 859	2 770	3 017	529	2 535	257	1 442	183	3 593	667
	Machine feeders and offbearers	74	—	—	—	297	254	53	44	53	10	31	8	153	66
	Freight, stock, and material handlers, n.e.c.	674	57	39	10	495	68	98	5	4 760	70	788	30	1 088	125
Garage and service station related occupations	228 385	20 239	425	35	62	5	41	5	39	7	78	8	476	70	
Vehicle washers and equipment cleaners	2 081	149	213	33	117	34	47	—	75	28	6	2	617	208	
Hand packers and packagers	329	95	74	48	1 673	1 240	201	149	499	235	439	275	3 250	2 644	
Laborers, except construction	6 824	561	967	63	2 788	1 270	684	193	9 150	601	2 393	426	6 306	2 132	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Retail trade—Con.														
	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	490 082	296 723	145 407	45 848	199 014	92 662	148 124	83 447	155 115	92 532	65 487	54 503	138 371	89 820
Managerial and professional specialty occupations	124 812	27 876	15 740	3 065	30 262	12 802	20 492	9 498	20 515	10 012	7 947	5 913	18 432	8 015
Executive, administrative, and managerial occupations	22 457	8 240	15 432	2 978	23 490	7 677	19 175	8 690	18 845	9 057	6 084	4 134	15 504	6 381
Legislative, clerical, and general administrative occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrative, clerical, and general administrative occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	352	122	64	27	314	153	285	122	1 182	808	88	38	616	311
Personal and labor relations managers	956	350	448	102	546	178	370	207	339	184	214	180	385	198
Purchasing managers	611	155	85	8	288	69	198	68	125	38	50	35	266	64
Managers, marketing, advertising, and public relations	1 889	467	2 013	300	4 672	1 141	2 986	1 027	4 045	1 831	1 096	751	1 782	654
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	12	10	—	—	7	—	2	—	17	17	8	8	6	—
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	13 277	4 154	11 771	2 241	15 140	4 983	11 294	4 876	10 406	4 479	3 916	2 631	8 083	2 876
Self-employed	12 777	3 939	9 111	1 513	11 418	3 173	9 789	4 131	9 026	3 938	3 086	1 970	7 152	2 499
Management related occupations	5 352	2 982	2 660	728	3 722	1 810	1 505	745	1 380	541	830	661	931	377
Accountants and auditors	1 355	810	350	191	655	1 329	612	378	720	432	153	109	1 113	589
Other financial officers	54	8	14	2	36	—	30	13	45	16	6	6	88	35
Management analysts	10	—	27	—	6	—	49	23	87	19	8	8	84	57
Personnel, training, and labor relations specialists	469	183	168	39	196	43	258	187	237	108	86	59	557	371
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	3 432	1 972	480	68	1 606	766	2 987	1 717	1 642	1 061	442	309	2 440	1 189
Business and promotion agents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Business inspectors	11	—	4	—	9	9	57	35	—	—	—	—	12	—
Construction inspectors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors and compliance officers, except construction	21	9	—	—	2	6	7	7	—	—	—	—	6	26
Management related occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Professional specialty occupations	102 355	19 636	308	87	6 772	5 125	1 317	808	1 670	955	1 863	1 779	2 928	1 634
Engineers, architects, and surveyors	156	25	24	—	102	28	44	—	20	1	17	5	228	60
Architects	47	8	8	—	15	9	7	—	6	—	11	5	10	5
Engineers	109	17	16	—	87	19	37	—	14	1	6	—	218	55
Aerospace engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metalurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chemical engineers	—	—	—	—	2	—	—	—	—	—	—	—	—	—
Nuclear engineers	—	—	5	—	—	—	—	—	7	—	—	—	—	—
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	35	8	—	—	7	—	6	—	6	—	—	—	15	—
Industrial engineers	21	2	—	—	23	—	11	—	1	1	6	—	7	5
Mechanical engineers	15	—	—	—	14	—	—	—	—	—	—	—	128	50
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers, n.e.c.	38	7	11	—	41	19	20	—	—	—	—	—	49	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	243	92	7	7	90	21	39	15	85	46	32	26	464	208
Computer systems analysts and scientists	131	57	—	—	54	10	24	6	50	26	11	11	232	78
Operations and systems researchers and analysts	94	35	—	—	28	11	15	9	28	13	21	21	115	37
Actuaries	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	7	—	7	—	8	—	—	—	7	7	—	—	117	93
Mathematical scientists, n.e.c.	11	—	—	—	—	—	—	—	—	—	—	—	—	—

Population of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.

	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Managerial and professional specialty occupations—Con.														
Professional specialty occupations—Con.														
Natural scientists	260	58	24	9	47	35	12	3	42	20	—	—	34	19
Physicists and astronomers	67	8	—	—	—	—	—	—	—	—	—	—	16	9
Chemists, except biochemists	90	8	16	9	46	34	—	—	19	8	—	—	6	6
Atmospheric and space scientists	16	5	—	—	—	—	9	—	23	12	—	—	—	—
Geologists and geodesists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Physical scientists, n.e.c.	8	8	8	—	—	—	—	—	—	—	—	—	12	4
Agricultural and food scientists	18	8	—	—	—	—	3	3	—	—	—	—	—	—
Biological and life scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forestry and conservation scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Medical scientists	61	21	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	603	120	6	7	7	7	—	—	17	7	—	—	—	—
Physicians	272	31	6	5	5	5	—	—	10	—	—	—	—	—
Dentists	59	22	6	—	—	—	—	—	7	—	—	—	—	—
Veterinarians	173	43	—	—	—	—	—	—	—	—	—	—	—	—
Optometrists	26	8	—	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	2	2	—	—	7	7	—	—	—	—
Health diagnosing practitioners, n.e.c.	123	16	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	99 833	18 592	18	6	16	17	29	6	33	26	—	—	81	57
Registered nurses	626	234	6	6	—	—	—	—	16	16	—	—	45	12
Pharmacists	98 789	18 235	12	16	16	—	23	6	17	10	—	—	36	—
Dietitians	190	32	—	—	—	—	6	—	—	—	—	—	—	—
Therapists	202	83	—	—	—	—	—	—	—	—	—	—	—	—
Physicians assistants	26	8	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, postsecondary	24	5	—	—	17	17	28	6	—	—	—	—	7	7
Teachers, except postsecondary	60	39	13	5	3 790	3 350	60	38	65	58	1 248	1 242	174	155
Teachers, prekindergarten and kindergarten	12	12	—	—	—	—	—	—	—	—	7	7	10	10
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	1 979	1 938	60	38	65	58	2	2	—	—
Teachers, n.e.c.	48	27	13	5	1 811	1 412	29	22	7	—	1 239	1 233	164	145
Counselors, educational and vocational	8	8	—	—	—	—	—	—	—	—	—	—	52	34
Librarians, archivists, and curators	16	5	6	6	—	—	175	130	7	—	12	12	6	6
Librarians	8	5	—	—	—	—	175	130	7	—	6	6	46	34
Archivists and curators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	75	17	19	7	39	21	54	34	24	19	6	6	308	160
Economists	54	11	19	7	32	21	54	34	19	14	6	6	301	153
Psychologists	6	6	—	—	—	—	—	—	—	—	—	—	7	7
Sociologists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	15	—	—	—	7	—	—	—	5	5	—	—	—	—
Urban planners	78	61	33	20	69	31	64	41	34	33	22	22	21	12
Social, recreation, and religious workers	78	61	27	20	56	29	32	26	31	31	22	22	16	7
Social workers	—	—	—	—	2	2	10	—	2	2	—	—	5	5
Recreation workers	—	—	6	—	6	—	22	15	1	—	—	—	—	—
Clergy	—	—	—	—	5	—	—	—	—	—	—	—	—	—
Religious workers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lawyers and judges	69	6	6	6	28	5	14	—	25	6	—	—	20	—
Lawyers	69	6	6	6	28	5	14	—	25	6	—	—	20	—
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	930	608	158	33	2 567	1 610	769	513	1 318	739	526	466	1 539	922
Authors	6	6	—	—	6	6	8	—	—	—	—	—	5	5
Technical writers	28	28	—	—	6	6	31	18	—	—	—	—	36	18
Designers	384	268	43	12	1 030	713	362	270	1 129	624	453	396	534	321
Musicians and composers	5	—	5	—	9	2	13	7	—	—	—	—	19	14
Actors and directors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, sculptors, craft-artists, and craft practitioners	171	73	7	7	865	653	98	48	64	26	33	30	248	151
Photographers	81	52	—	—	355	78	15	—	—	—	8	8	69	12
Artists, performers, and related workers, n.e.c.	34	20	8	8	96	66	33	33	—	—	16	16	64	41
Design and report writers	145	134	9	3	101	67	24	16	31	27	16	16	84	41
Design and report writers, n.e.c.	—	—	47	13	—	—	189	99	89	89	16	16	127	297

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con.

Natural scientists	—
Physicists and astronomers	—
Chemists, except biochemists	—
Atmospheric and space scientists	—
Geologists and geodesists	—
Physical scientists, n.e.c.	—
Agricultural and food scientists	—
Biological and life scientists	—
Forestry and conservation scientists	—
Medical scientists	—
Health diagnosing occupations	—
Physicians	—
Dentists	—
Veterinarians	—
Optomeltrists	—
Podiatrists	—
Health diagnosing practitioners, n.e.c.	—
Health assessment and treating occupations	—
Registered nurses	—
Pharmacists	—
Dietitians	—
Therapists	—
Physicians' assistants	—
Teachers, postsecondary	—
Teachers, except postsecondary	—
Teachers, prekindergarten and kindergarten	—
Teachers, elementary and secondary school	—
Teachers, special education	—
Teachers, n.e.c.	—
Counselors, educational and vocational	—
Librarians, archivists, and curators	—
Archivists and curators	—
Social scientists and urban planners	—
Econometricians	—
Psychologists	—
Sociologists	—
Social scientists, n.e.c.	—
Urban planners	—
Social recreation, and religious workers	—
Social workers	—
Recreation workers	—
Chaplain	—
Religious workers, n.e.c.	—
Lawyers and judges	—
Lawyers	—
Judges	—
Writers, artists, entertainers, and athletes	—
Authors	—
Technical writers	—
Designers and composers	—
Music directors	—
Actors and directors	—
Painters, sculptors, craft-artists, and artist printmakers	—
Photographers	—
Dancers	—
Artists, performers, and related workers, n.e.c.	—
Other service occupations	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States													
Retail trade—Con.													
Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
296 640	237 514	109 524	39 275	136 067	68 683	112 922	70 789	109 863	77 066	51 634	45 723	88 269	66 763
1 461	944	90	17	579	134	447	78	601	191	37	5	935	335
464	347	—	—	9	9	—	—	2	2	—	—	8	8
90	40	—	—	—	—	—	—	—	—	—	—	—	—
2	2	—	—	—	—	—	—	—	—	—	—	—	—
18	6	—	—	—	—	—	—	—	—	—	—	—	—
74	74	—	—	9	9	—	—	2	2	—	—	6	6
280	225	—	—	—	—	—	—	—	—	—	—	2	2
201	91	23	—	222	40	160	35	18	6	—	—	172	67
38	11	7	—	113	11	131	13	6	—	—	—	88	27
—	—	—	—	—	—	—	—	—	—	—	—	6	6
—	—	—	—	—	—	—	—	—	—	—	—	2	2
—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—(Con)

(Data are preliminary based on a sample, see introduction for meaning of symbols, and instructions for use of symbols. For definitions of terms, see appendix A.)

	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.														
Administrative support occupations, including detail—Con.														
Secretaries, stenographers, and typists—Con.														
Stenographers	8 359	8 174	1 138	1 105	3 147	3 100	4 931	4 815	3 019	2 987	670	660	7 669	7 538
Typists	4 592	4 312	1 022	980	2 805	2 805	3 907	3 831	2 556	2 559	585	579	4 870	4 810
Information clerks	3 720	3 634	104	93	304	295	1 011	971	456	451	77	73	2 786	2 713
Interviewers	44	44	8	8	14	14	50	49	986	986	125	125	1 422	1 309
Hotel clerks	48	48	25	13	16	—	—	—	17	11	—	—	9	7
Transportation ticket and reservation agents	48	48	76	70	347	347	362	336	235	226	73	73	529	501
Receptionists	82	82	7	7	40	32	113	90	32	32	38	38	523	501
Information clerks, n.e.c.	4 512	3 849	779	321	982	675	2 357	1 647	1 043	705	400	345	12 732	11 007
Records processing occupations, except financial	89	84	—	—	12	2	45	21	27	8	—	—	45	39
Classified-ad clerks	3 440	2 883	744	292	696	441	1 796	1 241	609	332	21	14	481	479
Correspondence clerks	228	228	14	8	6	16	155	91	30	30	13	13	10 627	9 033
Order clerks	632	589	14	14	225	195	327	273	243	232	54	47	1 033	1 017
Library clerks	78	78	36	7	26	21	6	6	114	103	5	5	336	295
Records clerks	19 575	18 754	3 424	3 081	6 960	6 491	8 124	7 452	8 852	8 458	1 302	1 167	5 726	5 359
Financial records processing occupations	17 981	17 333	3 282	2 981	6 335	6 335	7 379	6 823	8 472	8 093	1 054	1 054	4 245	3 969
Bookkeepers, clerks, and auditing clerks	278	271	49	49	101	101	79	79	210	200	41	41	523	508
Payroll and timekeeping clerks	766	723	28	26	173	108	520	445	210	200	41	41	656	627
Billing clerks	510	390	54	14	121	99	122	73	70	83	12	12	172	134
Cost and rate clerks	40	37	11	11	30	30	32	26	38	38	12	12	130	121
Billing, posting, and calculating machine operators	97	74	18	12	18	18	118	70	26	26	6	6	456	407
Duplicating, mail, and other office machine operators	31	17	10	10	6	6	59	40	7	7	—	—	34	30
Duplicating machine operators	66	57	8	2	12	12	20	20	19	19	—	—	239	202
Mail preparing and paper handling machine operators	159	133	15	15	99	87	83	83	111	106	33	33	183	175
Office machine operators, n.e.c.	132	120	15	15	99	87	79	79	106	106	33	33	732	696
Communications equipment operators	21	7	—	—	—	—	4	4	5	5	—	—	—	—
Telephone operators	6	6	—	—	—	—	—	—	—	—	—	—	—	—
Communications equipment operators, n.e.c.	1 801	626	201	25	204	98	707	215	355	116	61	32	3 792	2 954
Mail and message distributing occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postal clerks, except mail carriers	1 344	551	130	12	142	89	531	173	153	81	35	25	3 587	2 893
Mail carriers, postal service	457	75	71	13	62	9	176	42	202	35	26	7	205	61
Mail clerks, except postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Messengers	12 286	5 222	2 888	511	3 697	1 311	5 382	1 680	2 320	1 327	1 096	493	10 362	5 565
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dispositives	33	23	30	30	20	126	43	17	173	131	84	31	906	679
Production coordinators	1 197	989	391	117	219	126	156	121	173	131	84	31	906	679
Traffic, shipping, and receiving clerks	2 820	961	172	14	1 271	618	2 261	473	308	308	360	116	4 449	1 936
Stock and inventory clerks	7 250	2 440	2 147	321	1 877	669	2 494	796	1 219	618	586	235	2 911	1 185
Meter readers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Weights, measures, and checkers	130	85	30	5	69	42	83	51	27	22	21	13	487	388
Samplers	16	7	7	—	—	—	—	—	—	—	—	—	—	—
Expeditors	459	386	107	50	195	136	292	187	192	166	40	40	1 413	1 211
Material recording, scheduling, and distributing clerks, n.e.c.	361	311	11	4	46	23	49	35	75	75	5	5	143	126
Adjusters and investigators	490	317	120	81	234	171	314	181	789	665	36	31	1 604	1 389
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	351	192	55	19	212	156	212	113	334	292	31	31	1 219	1 050
Eligibility clerks, social welfare	50	36	65	62	22	15	94	66	15	8	5	—	380	334
Bill and account collectors	89	89	65	62	22	15	94	66	15	8	5	—	380	334
Miscellaneous administrative support occupations	12 801	10 894	2 500	1 041	2 774	2 285	4 499	3 512	3 779	3 550	998	917	11 105	10 231
General office clerks	11 391	9 691	2 367	1 041	2 293	1 874	3 759	2 930	3 779	3 180	883	810	6 004	5 484
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postoffice clerks	12	7	45	37	8	28	10	10	—	—	—	—	216	210
Postoffice clerks, except post office clerks	287	254	12	6	252	43	285	382	51	45	19	19	3 418	3 288
Postoffice clerks, except post office clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
 [Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A]

United States															
Retail trade—Con.															
Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
29 616	22 413	4 416	2 247	1 559	502	1 406	509	1 557	486	504	95	2 635	764		
1 081	224	187	25	206	49	214	44	291	15	27		714	81		
69	18	2		37		20		16				11			
69	18	2		37		20		16				69	10		
14	2	2		6								11			
6	6	2										11			
8	8														
					</										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Food and kindred product stores	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.														
Forestry and logging occupations	—	—	—	—	2	—	6	—	—	—	—	—	7	—
Logging workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Timber cutting and logging occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fishers, hunters, and trappers	—	—	—	—	32	—	6	—	—	—	—	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	7	—	6	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	21	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	5 360	1 801	2 179	303	12 853	2 058	3 883	808	19 850	3 485	2 186	1 441	6 979	2 402
Mechanics and repairers	618	78	350	6	8 031	249	1 732	35	9 181	824	359	169	1 876	93
Supervisors, mechanics and repairers	45	7	24	—	7 081	207	1 726	5	8 355	719	326	14	1 782	91
Mechanics and repairers, except supervisors	573	72	345	6	6 999	26	1 706	30	8 066	705	333	155	1 764	92
Mechanics and repairers, except supervisors, and repairers	151	3	83	—	699	26	47	—	28	5	17	—	368	19
Vehicle mechanics	123	—	71	—	423	26	34	—	5	—	—	—	283	12
Automobile mechanics	—	—	12	—	38	—	—	—	—	—	—	—	4	—
Bus, truck, and stationary engine mechanics	—	—	—	—	8	—	—	—	—	—	—	—	—	—
Aircraft engine mechanics	—	—	—	—	300	—	2	—	19	—	—	—	43	—
Small engine mechanics	16	3	—	—	42	—	11	—	—	—	—	—	7	—
Automobile body and related repairers	12	—	—	—	—	—	—	—	—	—	—	—	—	—
Aircraft mechanics, except engine	—	—	—	—	49	—	—	—	4	—	—	—	31	—
Heavy equipment mechanics	—	—	—	—	9	—	—	—	—	—	—	—	—	—
Farm equipment mechanics	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial machinery repairers	94	8	51	—	97	—	292	5	39	5	8	2	221	9
Machinery maintenance occupations	—	—	6	—	—	—	140	—	17	—	16	—	658	11
Electrical and electronic equipment repairers	109	—	17	—	158	6	—	—	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment	33	—	15	—	74	—	91	—	4	—	6	—	210	8
Data processing equipment repairers	5	—	2	—	20	—	16	—	13	—	10	—	428	—
Household appliance and power tool repairers	71	—	2	—	12	—	9	—	—	—	—	—	—	—
Telephone line installers and repairers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Telephone installers and repairers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous electrical and electronic equipment repairers	—	—	—	—	52	—	14	—	—	—	—	—	10	3
Heating, air conditioning, and refrigeration mechanics	24	—	24	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous mechanics and repairers	195	61	164	6	6 756	175	1 227	25	5	—	—	—	63	6
Camera, watch, and musical instrument repairers	23	—	13	—	347	24	7	—	9 010	775	282	153	482	46
Jewelry and watch repairers	—	—	—	—	33	—	—	—	6 557	320	24	—	77	13
Office machine repairers	28	11	—	—	28	—	1 014	16	—	—	—	—	16	6
Mechanical controls and valve repairers	10	10	10	—	—	—	—	—	—	—	—	—	4	—
Electrician, power line	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrician, power line, except power line	36	6	103	—	5 861	137	74	—	2 394	455	6	—	23	21
Power line installers and repairers	96	34	38	6	479	14	118	7	53	—	235	153	136	6
Not specified mechanics and repairers	—	—	—	—	—	—	—	—	—	—	17	—	220	—
Construction trades	593	31	160	—	730	141	243	5	112	17	108	6	298	19
Supervisors, construction occupations	49	—	—	—	74	7	10	—	26	—	8	—	14	—
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	6	—	—	—	—	—	—	—	6	—
Supervisors, carpenters and related workers	9	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	2	—	—	—	21	7	—	—	6	—	3	—	4	—
Supervisors, painters, paperhangers, and plasterers	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	32	—	—	—	47	—	10	—	20	—	5	—	4	—
Construction trades, except supervisors	544	31	160	—	656	134	233	5	86	17	100	6	284	19
Brickmasons and stonemasons	—	—	—	—	88	6	6	—	—	—	—	—	—	—
Tile setters, hard and soft	12	—	—	—	32	—	—	—	—	—	—	—	—	—
Carpenters	16	16	2	—	190	24	33	—	6	—	—	—	33	—
Drywall installers	305	—	77	—	390	—	116	5	36	—	34	—	84	—
Electricians	—	—	—	—	22	—	23	—	12	—	2	—	6	—
Power line installers and repairers	—	—	11	—	—	—	—	—	—	—	—	—	—	—
Painters, construction and maintenance	59	9	59	—	187	100	38	—	27	12	16	—	37	19

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Masters

Plumbers, pipefitters, and steamfitters

Concrete and masonry finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, precision occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Mechanists

Boilermakers

Precision grinders, files, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairs

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblies

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Drug stores

Liquor stores

Sporting goods, bicycles, and hobby stores

Book and stationery stores

Jewelry stores

Sewing, needlework, and piece goods stores

Mail order houses

Total

Female

Male

Total

Female

Male

Total

Female

Male

Total

Female

Male

Total

Female

Male

Total

Female

Male

Total

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Male

Total

Female

Male

Total

Female</

[Data are estimates based on a sample. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Forging machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal planing machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Woodworking machine operators

Wood lathe, routing, and planing machine operators

Sewing machine operators

Shaping and joining machine operators

Nailing and tacking machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Photoengraving and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Knitting, hosiery, and weaving machine operators

Textile cutting machine operators

Textile sewing machine operators

Shoe machine operators

Pressing machine operators

Wandering and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and gluing machine operators

Extruding and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and clarifying machine operators

Compressing and compacting machine operators

Painting and paint spraying machine operators

Coating, enameling, and electroplating machine operators

Washing, cleaning, and pickling machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Retail trade—Con.															
Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
20 828	5 211	8 597	734	5 960	1 729	3 948	1 071	1 785	825	1 553	321	13 383	7 561		
—	—	—	—	14	—	—	—	—	—	—	—	—	—		
—	—	28	28	18	—	—	—	—	—	—	—	13	—		
—	—	—	—	18	—	—	—	—	—	—	—	8	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
69	—	—	—	97	13	13	—	—	—	—	—	22	—		
54	31	16	—	38	11	6	6	—	—	—	—	45	15		
16 883	3 623	7 614	561	3 132	806	2 157	514	700	202	926	101	2 867	479		
5	—	6	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	9	—	—	—	—	—	—	—	—	—	—	—		
16 431	3 604	7 214	546	2 915	785	2 015	513	555	103	864	101	1 713	370		
13	—	—	—	13	—	7	—	—	—	—	—	16	—		
433	19	371	15	204	7	134	1	52	9	62	—	1 106	75		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	48	—	38	7	12	6	3	3	42	—	55	7		
187	31	74	—	54	14	40	23	32	7	—	—	67	25		
613	378	1 600	76	470	315	345	139	475	385	171	70	4 545	3 814		
2 962	1 134	657	69	2 099	563	1 375	383	575	228	414	150	5 741	3 221		

Employed persons 16 years and over—Con.
Operators, fabricators, and laborers—Con.
Handers, equipment cleaners, helpers, and laborers
Supervisors, handlers, equipment cleaners, and laborers
Helpers, mechanics and repairers
Helpers, construction and extractive occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations
Construction laborers
Production helpers
Freight, stock, and material handlers
Garbage collectors
Steveldores
Stock handlers and bidders
Machine feeders and offhanders
Freight, stock, and material handlers, n.e.c.
Garage and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade—Con.

United States

	Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	77 764	28 719	186 478	144 613	90 839	21 399	139 526	95 027	525 858	299 127	253 615	134 579
Managerial and professional specialty occupations	8 261	2 253	14 584	9 560	12 813	2 233	71 805	53 471	75 887	35 340	37 894	16 045
Executive, administrative, and managerial occupations	7 701	2 032	12 681	8 316	12 127	2 110	9 376	5 032	62 424	28 964	35 763	14 868
Legislators, chief executives, and general administrators; public administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-
Administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-	-	-	-	-
Local	-	-	-	-	-	-	-	-	-	-	-	-
Administrators, protective services	245	65	169	64	642	264	55	18	807	278	654	304
Financial managers	207	48	409	247	314	61	238	109	1 057	491	882	426
Personnel and labor relations managers	-	-	-	-	-	-	-	-	-	-	-	-
Purchasing managers	52	6	42	7	22	2	13	6	366	110	114	114
Managers, marketing, advertising, and public relations	697	92	6 644	5 041	1 371	58	522	330	11 665	4 742	5 716	2 356
Administrators, education and related fields	7	-	19	19	7	-	6	6	49	16	31	11
Managers, medicine and health	-	-	-	-	-	-	-	-	-	-	-	-
Managers, properties and real estate	21	-	13	8	9	-	-	-	71	15	14	7
Postmasters and mail superintendents	-	-	-	-	-	-	-	-	-	-	-	-
Federal directors	-	-	5	3	-	-	23	13	2	-	-	-
Managers and administrators, n.e.c.	5 437	1 401	4 187	2 325	8 595	1 304	7 948	4 271	38 411	17 708	19 791	7 572
Self-employed	4 879	1 261	3 340	1 774	7 809	1 183	5 291	2 763	29 525	13 264	15 387	5 937
Managers and administrators, n.e.c.	558	140	847	551	786	121	2 657	1 508	8 886	4 444	8 404	1 635
Management related occupations	1 035	420	1 193	602	1 167	421	571	279	9 996	5 604	8 350	4 076
Accountants and auditors	557	290	379	128	706	313	167	102	1 577	781	1 236	637
Underwriters	-	-	-	-	-	-	-	-	-	-	-	-
Other financial officers	5	-	61	18	58	19	-	-	167	108	83	39
Management analysts	4	-	100	47	12	6	21	-	332	168	126	72
Personnel, training, and labor relations specialists	294	79	368	248	220	55	98	46	1 034	573	572	296
Purchasing agents and buyers, farm products	-	-	-	-	-	-	-	-	-	-	-	-
Buyers, wholesale and retail trade except farm products	166	51	269	132	166	25	270	131	6 651	3 822	6 262	2 996
Purchasing agents and buyers, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-
Business and promotion agents	-	-	9	9	5	3	15	-	97	76	7	9
Construction inspectors	-	-	2	-	-	-	-	-	70	20	7	9
Inspectors and compliance officers, except construction	9	-	5	-	-	-	-	-	68	56	27	27
Management related occupations, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-
Professional specialty occupations	560	221	1 903	1 244	686	123	62 429	48 439	13 463	6 376	2 131	1 177
Engineers, architects, and surveyors	69	-	115	14	223	1	50	36	516	35	182	28
Architects	-	-	-	-	5	-	11	7	38	14	14	14
Engineers	69	-	115	14	210	1	39	29	475	32	140	14
Aerospace engineers	-	-	-	-	-	-	8	6	-	-	-	-
Metallurgical and materials engineers	-	-	-	-	-	-	-	-	-	-	-	-
Mining engineers	-	-	-	-	19	-	-	-	6	-	-	-
Petroleum engineers	-	-	-	-	9	-	-	-	-	-	-	-
Chemical engineers	-	-	7	7	30	-	-	-	-	-	2	2
Nuclear engineers	-	-	-	-	-	-	-	-	-	-	-	-
Civil engineers	6	-	-	-	34	-	-	-	17	-	15	15
Agricultural engineers	-	-	-	-	-	-	-	-	-	-	-	-
Electrical and electronic engineers	12	-	30	-	19	-	-	-	73	14	12	7
Industrial engineers	9	-	32	7	31	1	-	-	28	7	15	7
Mechanical engineers	36	-	5	-	25	-	2	2	52	18	18	18
Marine engineers and naval architects	-	-	-	-	5	-	-	-	-	-	-	-
Engineers, n.e.c.	6	-	41	-	38	-	29	21	299	11	78	7
Surveyors and mapping scientists	-	-	-	-	8	-	-	-	3	3	-	-
Mathematical and computer scientists	42	6	103	48	97	19	-	-	254	53	138	22
Computer systems analysts and scientists	25	6	44	8	27	-	-	-	162	37	72	22
Operations and systems researchers and analysts	17	-	33	14	56	12	-	-	75	8	55	7
Actuaries	-	-	-	-	7	7	-	-	-	-	-	-
Statisticians	-	-	-	-	7	-	-	-	17	8	11	11
Mathematical scientists, n.e.c.	-	-	26	26	-	-	-	-	-	-	-	-

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Retail trade—Con.					
	Vending machine operators		Direct selling establishments		Fuel and ice dealers	
	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.						
Managerial and professional specialty occupations—Con.						
Professional specialty occupations—Con.						
Natural scientists	14	14	40	12	79	5
Physicists and astronomers	7	7	5	6	6	—
Chemists, except biochemists	—	—	29	6	—	—
Atmospheric and space scientists	—	—	—	—	51	7
Geologists and geodesists	—	—	—	—	—	—
Physical scientists, n.e.c.	—	—	—	—	—	—
Agricultural and food scientists	—	—	—	—	—	—
Biological and life scientists	7	7	—	—	5	5
Forestry and conservation scientists	—	—	—	—	17	—
Medical scientists	—	—	6	6	—	—
Health diagnosing occupations	17	6	3	3	—	—
Physicians	6	6	3	3	—	—
Dentists	6	6	—	—	—	—
Veterinarians	5	—	—	—	—	—
Optometrists	6	—	—	—	—	—
Podiatrists	5	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	6	—	—	—	—	—
Health assessment and treating occupations	102	85	38	38	7	6
Registered nurses	17	17	10	10	6	6
Pharmacists	85	85	15	15	1	—
Diagnosticians	—	—	13	13	—	—
Therapists	—	—	—	—	—	—
Physicians' assistants	—	—	—	—	—	—
Teachers, postsecondary	30	30	236	216	27	17
Teachers, except postsecondary	—	—	—	—	—	—
Teachers, prekindergarten and kindergarten	—	—	8	8	—	—
Teachers, elementary and secondary school	—	—	228	208	27	17
Teachers, special education	—	—	—	—	6	—
Teachers, n.e.c.	30	30	—	—	—	—
Counselors, educational and vocational	14	14	—	—	—	—
Librarians, archivists, and curators	7	7	—	—	—	—
Artists and curators	—	—	—	—	—	—
Social scientists and urban planners	48	5	105	51	115	28
Economists	39	5	99	45	115	28
Psychologists	9	—	6	6	—	—
Sociologists	—	—	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	—
Urban planners	12	—	115	95	11	6
Social, recreation, and religious workers	5	—	12	2	6	6
Social workers	7	—	—	—	5	—
Recreation workers	—	—	—	—	—	—
Clergy	—	—	103	93	—	—
Religious workers, n.e.c.	—	—	—	—	—	—
Lawyers and judges	7	—	74	26	44	—
Judges	7	—	74	26	44	—
Writers, artists, entertainers, and athletes	200	61	1 068	735	77	41
Authors	11	—	15	8	6	—
Technical writers	70	35	542	472	8	8
Designers	16	—	—	—	—	—
Musicians and composers	—	—	10	10	—	—
Actors and directors	—	—	75	49	2	2
Painters, sculptors, craft-artists, and artist printmakers	—	—	22	5	9	9
Photographers	7	—	—	—	—	—
Dancers, performers, and related workers, n.e.c.	7	—	—	—	—	—
Editors and reporters	17	11	242	127	10	10
Public relations specialists	72	15	95	38	34	11
Artisans, craftworkers, and related workers, n.e.c.	—	—	5	—	6	—
Not specified retail trade	45	32	184	78	355	214
Miscellaneous retail stores	—	—	12	—	—	—
Fuel and ice dealers	—	—	6	—	—	—
Direct selling establishments	—	—	51	—	—	—
Vending machine operators	—	—	—	—	—	—
Health diagnosing occupations	—	—	—	—	—	—
Physicians	—	—	—	—	—	—
Dentists	—	—	—	—	—	—
Veterinarians	—	—	—	—	—	—
Optometrists	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—
Health assessment and treating occupations	—	—	—	—	—	—
Registered nurses	—	—	—	—	—	—
Pharmacists	—	—	—	—	—	—
Diagnosticians	—	—	—	—	—	—
Therapists	—	—	—	—	—	—
Physicians' assistants	—	—	—	—	—	—
Teachers, postsecondary	—	—	—	—	—	—
Teachers, except postsecondary	—	—	—	—	—	—
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—
Teachers, n.e.c.	—	—	—	—	—	—
Counselors, educational and vocational	—	—	—	—	—	—
Librarians, archivists, and curators	—	—	—	—	—	—
Artists and curators	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—
Economists	—	—	—	—	—	—
Psychologists	—	—	—	—	—	—
Sociologists	—	—	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	—
Urban planners	—	—	—	—	—	—
Social, recreation, and religious workers	—	—	—	—	—	—
Social workers	—	—	—	—	—	—
Recreation workers	—	—	—	—	—	—
Clergy	—	—	—	—	—	—
Religious workers, n.e.c.	—	—	—	—	—	—
Lawyers and judges	—	—	—	—	—	—
Judges	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	—	—	—	—	—	—
Authors	—	—	—	—	—	—
Technical writers	—	—	—	—	—	—
Designers	—	—	—	—	—	—
Musicians and composers	—	—	—	—	—	—
Actors and directors	—	—	—	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	—	—	—	—	—	—
Photographers	—	—	—	—	—	—
Dancers, performers, and related workers, n.e.c.	—	—	—	—	—	—
Editors and reporters	—	—	—	—	—	—
Public relations specialists	—	—	—	—	—	—
Artisans, craftworkers, and related workers, n.e.c.	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Retail trade—Con.									
	Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations.....	19 212	10 600	160 324	130 277	30 775	18 014	44 625	33 627	356 669	233 511
Technicians and related support occupations.....	374	40	383	175	462	94	89	46	3 841	1 440
Health technologists and technicians.....	8	—	18	12	—	—	—	—	1 149	777
Clinical laboratory technologists and technicians.....	—	—	—	—	—	—	—	—	4	4
Dental hygienists.....	—	—	—	—	—	—	—	—	—	—
Health record technicians.....	—	—	—	—	—	—	—	—	6	6
Radiologic technicians.....	—	—	—	—	—	—	—	—	6	6
Licensed practical nurses.....	—	—	—	—	—	—	—	—	7	7
Health technologists and technicians, n.e.c.....	8	—	2	2	—	—	—	—	1 126	754
Engineering and related technologists and technicians.....	224	—	106	48	194	20	21	15	1 387	286
Electrical and electronic technicians.....	182	—	14	—	35	—	—	—	751	81
Industrial engineering technicians.....	—	—	—	—	—	—	—	—	13	7
Mechanical engineering technicians.....	—	—	—	—	—	—	—	—	—	—
Engineering technicians, n.e.c.....	6	—	21	9	115	4	—	—	353	141
Drafting occupations.....	36	—	62	30	38	16	21	15	260	47
Surveying and mapping technicians.....	—	—	9	6	6	—	—	—	10	10
Science technicians.....	9	—	25	18	5	—	52	17	51	20
Biological technicians.....	—	—	—	—	—	—	46	17	—	—
Chemical technicians.....	9	—	23	16	5	—	—	—	16	4
Science technicians, n.e.c.....	—	—	2	—	—	—	6	—	34	—
Technicians, except health, engineering, and science.....	153	40	234	97	263	74	16	14	1 254	357
Airplane pilots and navigators.....	—	—	15	—	35	5	—	—	42	—
Air traffic controllers.....	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators.....	5	—	—	—	11	11	—	—	6	—
Computer programmers.....	66	22	162	74	51	40	6	6	308	119
Tool programmers, numerical control.....	—	—	—	—	5	—	—	—	22	—
Legal assistants.....	13	13	2	—	17	10	—	—	45	16
Technicians, n.e.c.....	69	—	55	23	144	8	10	8	811	170
Sales occupations.....	10 746	3 822	148 093	119 959	10 437	1 487	32 299	22 845	289 648	180 425
Supervisors and proprietors, sales occupations.....	4 387	724	4 472	2 613	4 884	355	11 539	5 813	82 058	40 707
Salaried.....	2 408	505	2 455	1 322	3 519	203	4 487	2 103	36 029	17 079
Self-employed.....	1 779	219	2 017	1 291	1 365	152	7 052	3 710	46 029	23 628
Sales representatives, finance and business services.....	13	5	252	110	17	—	20	15	1 093	518
Insurance sales occupations.....	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations.....	8	—	7	—	14	1	14	9	151	114
Securities and financial services sales occupations.....	—	—	—	—	3	—	6	—	—	—
Advertising and related sales occupations.....	5	—	245	110	—	—	—	—	942	404
Sales occupations, other business services.....	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail.....	—	—	29	8	51	—	—	—	148	2
Sales engineers.....	—	—	29	8	—	—	—	—	148	—
Sales representatives, mining, manufacturing, and wholesale.....	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services.....	6 329	3 082	142 175	116 113	5 472	1 125	20 672	16 952	204 361	138 622
Sales workers, commodities.....	196	78	811	561	4 733	611	18 145	14 731	178 548	117 810
Sales counter clerks.....	24	20	8	2	6	—	32	20	304	248
Cashiers.....	2 114	1 832	1 078	950	445	308	1 630	1 522	17 038	15 327
Street and door-to-door sales workers.....	3 963	1 149	131 035	111 673	248	194	777	654	4 685	3 976
News vendors.....	32	3	9 243	2 927	40	12	88	25	3 786	1 259
Sales related occupations.....	17	11	1 145	1 115	13	6	68	65	1 988	576
Demonstrators, promoters and models, sales.....	11	11	1 156	1 113	11	6	23	23	437	363
Auctioneers.....	—	—	—	—	—	—	—	—	1 477	155
Sales support occupations, n.e.c.....	6	—	9	2	2	—	42	42	74	58
Administrative support occupations, including clerical.....	8 072	6 738	11 848	10 143	19 876	16 433	12 237	10 736	63 180	51 646
Supervisors, administrative support occupations.....	400	308	349	409	769	409	284	151	3 085	1 886
Supervisors, general office.....	318	245	386	283	436	253	193	105	2 233	1 486
Supervisors, computer equipment operators.....	—	—	10	5	28	—	—	—	32	6
Supervisors, financial records processing.....	41	33	87	37	256	152	51	31	316	204
Chief communications operators.....	4	4	11	6	15	4	—	—	7	7
Chief communications operators.....	—	—	—	—	—	—	—	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks.....	32	21	49	21	34	4	40	15	497	183
Computer equipment operators.....	195	153	335	233	583	463	88	66	923	743
Computer operators.....	190	153	305	215	538	420	215	67	849	669
Peripheral equipment operators.....	5	5	30	18	45	43	21	15	74	74
Not specified retail trade.....	—	—	—	—	—	—	—	—	—	—
Total.....	189 741	110 813	1 897 411	1 302 277	30 775	18 014	44 625	33 627	356 669	233 511
Female.....	570	152	3 841	1 440	462	94	89	46	3 841	1 440
Male.....	189 171	110 661	1 893 570	1 298 827	29 313	17 920	43 736	33 581	352 828	232 071

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade—Con.											
Vending machine operators			Direct selling establishments			Fuel and ice dealers			Retail florists		
Total	Female		Total	Female		Total	Female		Total	Female	
1 926	1 898		3 032	2 944		4 875	4 788		1 330	1 318	
1 799	1 771		2 555	2 481		4 581	4 494		1 120	1 108	
127	127		31	31		294	294		188	188	
263	244		344	314		629	555		416	398	
—	—		31	25		147	121		—	—	
—	—		8	8		6	6		7	7	
5	5		206	198		320	312		173	167	
175	175		99	83		156	116		236	224	
83	64		914	855		348	220		597	532	
274	204		25	14		9	9		—	—	
—	—		62	53		207	100		522	482	
161	97		605	585		—	—		—	—	
32	28		32	32		—	—		—	—	
49	49		—	—		122	107		73	48	
27	27		61	50		10	4		2	2	
2 453	2 280		1 974	1 834		7 466	6 835		6 432	6 123	
2 235	2 088		1 721	1 607		6 991	6 423		6 101	5 811	
117	110		125	117		137	123		40	28	
52	52		66	66		254	217		262	255	
13	13		26	26		24	12		19	19	
36	30		24	18		60	60		10	10	
45	5		56	27		29	24		—	—	
5	5		16	7		—	—		—	—	
40	—		22	7		29	24		—	—	
39	39		83	75		108	97		124	124	
39	39		83	75		108	97		124	124	
—	—		—	—		—	—		—	—	
59	11		428	253		127	29		722	186	
—	—		—	—		—	—		—	—	
34	6		340	202		77	22		356	115	
25	5		88	51		50	7		366	71	
870	375		1 291	752		1 798	498		501	285	
101	49		25	—		215	63		63	123	
63	28		92	53		178	87		147	111	
177	169		512	230		113	12		67	772	
431	431		407	253		255	104		116	50	
—	—		—	—		—	—		—	—	
43	32		83	74		68	9		15	15	
—	—		8	8		7	7		2	2	
48	42		126	113		140	58		90	78	
7	7		38	21		11	6		—	—	
182	70		454	291		276	181		104	68	
71	30		223	160		173	97		61	39	
111	40		215	115		103	84		35	21	
1 366	1 146		2 394	2 216		2 868	2 334		1 639	1 485	
1 027	902		1 501	1 384		2 441	2 029		1 511	1 382	
—	—		—	—		—	—		—	—	
208	158		583	553		246	204		64	64	
59	49		80	76		87	87		21	21	
48	31		217	182		65	14		43	18	

Employed persons 16 years and over—Con.											
Technical, sales, and administrative support occupations—Con.			Administrative support occupations, including clerical—Con.			Secretaries, stenographers, and typists			Information clerks		
Total	Female		Total	Female		Total	Female		Total	Female	
5 764	5 702		14 300	14 043		14 300	14 043		14 300	14 043	
5 288	5 245		12 742	12 511		12 742	12 511		12 742	12 511	
18	18		95	89		95	89		95	89	
463	439		1 443	1 363		1 443	1 363		1 443	1 363	
933	874		5 253	4 930		5 253	4 930		5 253	4 930	
177	175		257	141		257	141		257	141	
—	—		—	—		—	—		—	—	
24	14		70	53		70	53		70	53	
563	563		4 532	4 410		4 532	4 410		4 532	4 410	
122	122		394	326		394	326		394	326	
1 471	1 038		3 259	2 539		3 259	2 539		3 259	2 539	
45	32		109	83		109	83		109	83	
6	6		88	65		88	65		88	65	
667	667		2 206	1 650		2 206	1 650		2 206	1 650	
87	87		41	41		41	41		41	41	
—	—		8	8		8	8		8	8	
217	190		611	579		611	579		611	579	
56	56		196	113		196	113		196	113	
7 009	6 383		15 312	14 110		15 312	14 110		15 312	14 110	
6 319	5 764		13 387	12 387		13 387	12 387		13 387	12 387	
165	165		316	290		316	290		316	290	
214	214		632	564		632	564		632	564	
202	202		1 021	824		1 021	824		1 021	824	
38	38		45	38		45	38		45	38	
42	42		149	96		149	96		149	96	
14	14		43	43		43	43		43	43	
11	11		49	20		49	20		49	20	
17	17		57	33		57	33		57	33	
224	224		375	342		375	342		375	342	
231	231		368	342		368	342		368	342	
—	—		7	—		7	—		7	—	
354	108		1 411	561		1 411	561		1 411	561	
—	—		—	—		—	—		—	—	
191	84		952	487		952	487		952	487	
163	24		459	74		459	74		459	74	
5 712	2 858		8 177	3 762		8 177	3 762		8 177	3 762	
45	27		258	123		258	123		258	123	
438	288		772	555		772	555		772	555	
1 503	693		2 203	1 503		2 203	1 503		2 203	1 503	
2 827	1 150		3 922	1 690		3 922	1 690		3 922	1 690	
—	—		—	—		—	—		—	—	
72	40		179	117		179	117		179	117	
10	10		2	2		2	2		2	2	
348	348		646	494		646	494		646	494	
—	—		—	—		—	—		—	—	
375	302		195	163		195	163		195	163	
609	417		1 157	625		1 157	625		1 157	625	
—	—		—	—		—	—		—	—	
357	214		750	401		750	401		750	401	
13	13		26	8		26	8		26	8	
239	190		381	204		381	204		381	204	
6 591	5 555		9 779	7 989		9 779	7 989		9 779	7 989	
5 882	4 785		7 911	6 507		7 911	6 507		7 911	6 507	
—	—		—	—		—	—		—	—	
4	4		64	20		64	20		64	20	
362	362		21	21		21	21		21	21	
221	120		43	18		43	18		43	18	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Retail Trade—Con.

United States	Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	9 751	7 716	1 640	1 026	1 397	448	1 302	502	8 818	4 582	5 097	2 058
Private household occupations	47	4	73	16	109	23	26	—	663	152	959	347
Protective service occupations	6	—	5	—	6	—	—	—	51	21	—	—
Supervisors, protective service occupations	6	—	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	6	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	6	—	5	—	6	—	—	—	51	21	—	—
Supervisors, guards	—	—	—	—	—	—	—	—	17	—	—	—
Firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	10	—	—	—
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	41	4	68	16	103	23	26	—	595	131	907	347
Guards	41	4	68	16	103	23	26	—	588	131	907	347
Crossing guards	—	—	—	—	—	—	—	—	7	—	—	—
Guards and police, except public service	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	9 704	7 712	1 567	1 010	1 288	425	1 276	502	8 155	4 430	4 138	1 711
Food preparation and service occupations	8 256	7 119	906	665	155	55	17	17	1 487	1 024	1 298	927
Supervisors, food preparation and service occupations	660	406	49	30	22	12	—	—	68	40	32	6
Bartenders	29	—	12	13	25	5	—	—	44	8	16	—
Waiters and waitresses	412	403	88	88	38	29	—	—	375	335	472	452
Cooks, except short order	1 963	1 360	254	194	36	—	—	—	446	298	405	224
Short-order cooks	84	45	6	6	—	—	—	—	38	15	9	—
Food counter, fountain and related occupations	1 004	120	94	40	5	—	—	—	135	88	96	82
Kitchen workers, food preparation	957	84	84	84	—	—	—	—	77	52	37	37
Kitchen workers, food service	335	335	115	100	24	9	—	—	46	32	64	41
Waiters and waitresses, assistants	3 571	3 273	183	110	5	—	—	—	258	156	167	70
Miscellaneous food preparation occupations	—	—	—	—	—	—	—	—	—	—	—	—
Health service occupations	119	102	43	33	—	—	—	—	613	487	22	15
Dental assistants	8	8	—	—	—	—	—	—	12	12	—	—
Health aides, except nursing	105	88	27	17	—	—	—	—	415	370	22	15
Nursing aides, orderlies, and attendants	6	6	16	16	—	—	—	—	186	105	—	—
Cleaning and building service occupations, except household	1 047	264	360	77	—	—	—	—	4 270	1 375	2 499	484
Supervisors, cleaning and building service workers	22	22	29	29	59	16	136	385	78	4	37	—
Maid and houseman	120	60	19	6	211	183	252	126	567	287	273	112
Janitors and cleaners	898	204	304	69	789	128	875	254	3 573	1 067	2 139	346
Elevator operators	7	—	8	2	—	—	—	—	52	17	50	26
Pest control occupations	—	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations	282	227	258	235	74	43	104	81	1 765	1 544	319	285
Supervisors, personal service occupations	—	—	17	4	5	—	12	12	17	17	—	—
Barbers	26	6	164	159	17	17	—	—	—	—	17	—
Hairstylists and cosmetologists	16	3	12	7	9	9	—	—	1 072	983	141	132
Attendants, amusement and recreation facilities	—	—	6	6	—	—	4	4	43	9	2	—
Guides	—	—	—	—	—	—	—	—	18	18	—	—
Ushers	—	—	—	—	—	—	—	—	41	7	—	—
Public transportation attendants	—	—	—	—	4	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	7	—	—	—
Service porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	7	7	12	12	—	—	40	17	311	289	13	13
Child care workers, except private household	233	211	47	47	30	22	48	48	276	221	146	138
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	6	6	7	7	262	13	3 512	1 983	2 647	1 963	103	7
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	2	—	—	—	2 798	1 715	30	24	6	—
Related agricultural occupations	6	6	5	5	59	13	693	262	2 580	1 939	74	3
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	6	6	—	—	46	—	687	259	142	22	74	—
Animal caretakers, except farm	—	—	—	—	13	—	—	—	2 431	1 917	—	—
Grocers and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—

Data are estimates based on a sample: see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.													
Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Construction trades—Con.													
Construction trades, except supervisors—Con.													
Plasterers	13	18	—	501	—	9	—	8	—	38	3		
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	107	—	—	—		
Concrete and masonry finishers	—	—	—	—	—	—	—	5	—	—	—		
Glaziers	6	—	—	5	—	—	—	223	54	30	—		
Insulation workers	—	—	—	—	—	—	—	21	—	13	—		
Paving, surfacing, and tamping equipment operators	—	—	—	—	—	—	—	4	—	—	—		
Roofers	—	—	—	11	—	—	—	—	—	—	—		
Sheetmetal duct installers	—	—	—	24	—	6	—	12	—	6	6		
Structural metal workers	—	—	—	7	—	—	—	—	—	—	—		
Drillers, earth	—	—	—	14	—	—	—	—	—	—	—		
Construction trades, n.e.c.	—	—	—	16	—	—	—	1 011	18	47	6		
Extrusive occupations	—	19	6	132	—	—	—	22	—	15	—		
Supervisors, extrusive occupations	—	—	—	12	—	—	—	—	—	—	—		
Drillers, oil well	—	—	—	2	—	—	—	—	—	—	—		
Explosives workers	—	—	—	2	—	—	—	—	—	—	—		
Mining machine operators	—	19	6	96	—	—	—	22	—	—	—		
Mining occupations, n.e.c.	—	—	—	22	—	—	—	—	—	—	—		
Precision production occupations	2 619	1 744	794	2 279	112	1 108	—	32 842	12 418	5 046	2 287		
Supervisors, production occupations	2 217	1 427	693	1 803	101	1 042	—	6 306	2 347	3 355	1 349		
Precision metalworking occupations	110	70	9	227	—	23	—	1 841	974	336	82		
Tool and die makers	—	—	—	—	—	—	—	29	—	34	—		
Precision assemblers, metal	—	—	—	—	—	—	—	7	—	—	—		
Machinists	74	40	3	42	—	7	—	268	45	132	—		
Boilermakers	—	—	—	102	—	16	—	—	—	—	—		
Precision grinders, filers, and tool sharpeners	—	—	—	—	—	—	—	11	—	—	—		
Patternmakers and model makers, metal	5	—	—	—	—	—	—	5	—	—	—		
Lay-out workers	—	—	—	—	—	—	—	—	—	—	—		
Precious stones and metals workers (jewelers)	22	20	2	—	—	—	—	22	—	—	—		
Engravers, metal	—	10	4	—	—	—	—	304	165	79	21		
Sheet metal workers	9	—	—	83	—	—	—	1 142	725	66	56		
Miscellaneous precision metal workers	—	—	—	—	—	—	—	42	25	—	—		
Precision woodworking occupations	3	7	—	45	2	—	—	2 151	275	35	7		
Patternmakers and model makers, wood	—	—	—	—	—	—	—	—	—	—	—		
Cabinet makers and bench carpenters	3	7	—	26	2	—	—	532	27	28	—		
Furniture and wood finishers	—	—	—	19	—	—	—	1 576	240	7	—		
Miscellaneous precision woodworkers	—	—	—	—	—	—	—	43	8	—	—		
Precision textile, apparel, and furnishings machine workers	63	55	39	9	9	13	13	1 139	773	730	629		
Dressmakers	31	43	39	9	9	13	13	643	617	493	464		
Tailors	5	10	—	—	—	—	—	57	34	211	147		
Upholsterers	14	2	—	—	—	—	—	268	62	—	—		
Shoe repairers	7	—	—	—	—	—	—	155	46	—	—		
Apparel and fabric patternmakers	6	—	—	—	—	—	—	16	14	6	6		
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	—	—	—	—	—		
Precision workers, assorted materials	25	20	20	21	—	18	3	21 155	7 972	88	30		
Hand molders and shapers, except jewelers	—	—	—	7	—	—	—	913	177	16	10		
Patternmakers, lay-out workers, and cutters	—	—	—	—	—	—	—	81	44	—	—		
Optical goods workers	6	20	20	5	—	15	—	20 010	7 691	42	—		
Dental laboratory and medical appliance technicians	—	—	—	—	—	—	—	57	26	9	9		
Bookbinders	6	—	—	—	—	—	—	26	21	6	—		
Electrical and electronic equipment assemblers	13	—	—	—	—	—	—	—	—	—	—		
Miscellaneous precision workers, n.e.c.	—	—	—	9	—	3	3	68	13	15	—		
Precision food production occupations	195	133	22	14	—	12	—	64	30	416	175		
Butchers and meat cutters	63	66	5	3	—	6	—	32	6	64	—		
Bakers	119	38	17	11	—	22	—	28	22	298	104		
Food batchmakers	13	29	—	—	—	—	—	7	2	111	7		
Precision inspectors, testers, and related workers	—	—	7	8	—	—	—	54	32	12	—		
Inspectors, testers, and graders	—	7	7	—	—	—	—	—	—	—	—		
Adjusters and calibrators	—	—	—	8	—	—	—	—	—	—	—		

Retail trade—Con.

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Precision production occupations—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Retail trade—Con.									
	Vending machine operators	Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade	
	Total	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators and tenders, except precision—Con.											
Machine operators, assorted materials—Con.											
Folding machine operators	19	12	12	—	—	15	15	14	—	7	—
Funco, lin, and oven operators, except food	—	6	—	104	—	—	—	31	15	13	—
Cutting and grinding machine operators	12	14	9	15	—	—	—	39	33	—	—
Slicing and cutting machine operators	—	—	—	246	7	18	—	394	130	55	23
Motion picture projectionists	—	—	—	—	—	—	—	—	—	—	—
Photographic process machine operators	52	32	14	—	—	—	—	170	107	54	33
Miscellaneous machine operators, n.e.c.	282	117	85	185	15	16	8	1110	585	233	120
Machine operators, not specified	—	378	193	313	21	94	62	1491	681	396	160
Fabricators, assemblers, and hand working occupations	320	344	223	256	18	262	207	4061	1806	661	225
Welders and cutters	44	7	—	150	—	6	—	285	2	170	6
Solders and brazers	—	—	—	—	—	—	—	3	3	—	—
Assemblers	262	303	200	99	18	147	129	3413	1619	416	156
Hand cutting and trimming occupations	—	—	—	—	—	11	—	20	20	6	—
Hand molding, casting, and forming occupations	7	14	14	—	—	87	56	64	24	8	8
Hand painting, coating and decorating occupations	—	6	—	7	—	7	7	123	68	46	—
Hand engraving and printing occupations	—	—	—	—	—	—	—	5	—	7	—
Hand grinding and polishing occupations	7	14	9	—	—	4	4	140	70	6	6
Miscellaneous hand working occupations	—	—	—	—	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	57	110	80	72	23	153	92	1800	1272	125	92
Production inspectors, checkers, and examiners	40	77	52	32	5	11	5	302	176	39	33
Production testers	5	8	8	—	—	6	—	—	—	6	—
Production samplers and weighers	—	—	—	5	—	—	—	—	—	—	—
Graders and sorters, except agricultural	12	25	20	35	18	136	87	1498	1096	80	59
Transportation and material moving occupations											
Motor vehicle operators	26 837	6 013	694	27 317	194	13 220	3 114	8 798	793	3 609	240
Supervisors, motor vehicle operators	26 636	5 989	657	26 709	182	13 205	3 103	8 170	740	3 323	208
Truck drivers, heavy	1 105	28	33	15 958	85	53	30	196	33	8	—
Truck drivers, light	3 338	130	26	9 303	69	1 221	151	3 240	99	1 372	43
Driver-sales workers	21 063	5 609	272	1 142	15	11 196	2 730	3 658	486	1 307	82
Bus drivers	50	3	3	1	—	434	139	670	74	473	63
Taxicab drivers and chauffeurs	93	17	6	124	6	21	15	30	8	21	—
Parking lot attendants	—	57	—	—	—	280	38	314	40	90	14
Motor transportation occupations, n.e.c.	7	8	—	—	—	—	—	62	6	52	6
Rail transportation occupations	—	—	—	—	—	—	—	—	—	—	—
Railroad conductors and yardmasters	—	—	—	—	—	—	—	10	10	2	—
Locomotive operating occupations	—	—	—	—	—	—	—	2	2	2	—
Railroad brake, signal, and switch operators	—	—	—	—	—	—	—	8	8	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	2	2	—	—
Water transportation occupations	—	—	—	34	—	2	—	—	—	14	—
Ship captains and mates, except fishing boats	—	—	—	30	—	—	—	—	—	5	—
Sailors and deckhands	—	—	—	2	—	—	—	—	—	9	—
Marine engineers	—	—	—	2	—	2	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators	201	24	37	574	12	13	11	616	43	270	32
Supervisors, material moving equipment operators	15	—	8	43	—	2	—	47	—	—	—
Operating engineers	—	—	—	61	—	—	—	17	8	32	—
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators	—	—	—	13	—	—	—	8	—	—	—
Crane and tower operators	14	—	—	30	—	—	—	31	—	6	—
Excavating and loading machine operators	—	—	—	79	—	—	—	28	—	—	—
Grader, dozer, and scraper operators	—	—	—	79	—	—	—	—	—	—	—
Industrial truck and tractor equipment operators	56	—	—	122	—	—	—	267	—	173	14
Miscellaneous material moving equipment operators	116	67	28	147	12	11	—	218	22	59	18

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																	
Retail trade—Con.																	
Vending machine operators			Direct selling establishments			Fuel and ice dealers			Retail florists			Miscellaneous retail stores			Not specified retail trade		
Total		Female	Total		Female	Total		Female	Total		Female	Total		Female	Total		Female
1 537	554		2 454	1 427		3 082	179		3 010	1 424		13 562	4 055		7 184	1 944	
19	—		—	—		18	—		5	5		26	13		70	34	
8	8		3	—		30	—		4	4		23	—		—	—	
—	—		—	—		23	12		—	—		26	—		13	—	
—	—		—	—		23	12		—	—		26	—		—	—	
—	—		—	—		—	—		—	—		—	—		—	—	
—	—		—	—		—	—		—	—		—	—		—	—	
8	—		14	—		46	—		5	—		117	11		54	—	
6	—		9	9		24	—		14	2		174	38		48	8	
351	50		503	115		619	26		352	71		5 311	1 440		3 723	1 012	
—	—		—	—		—	—		—	—		19	10		7	—	
197	40		278	98		124	7		276	53		3 605	1 294		3 246	969	
5	5		12	12		24	—		—	—		133	63		47	27	
149	5		213	5		471	19		76	18		1 554	73		423	16	
—	—		31	7		487	31		20	—		162	20		165	37	
141	34		9	—		49	3		32	11		160	34		31	31	
339	417		789	670		40	9		238	142		1 636	902		573	348	
587	123		1 096	626		1 746	98		2 340	1 189		5 927	1 597		2 395	484	

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.

Handlers, equipment cleaners, helpers, and laborers

Supervisors, handlers, equipment cleaners, and laborers, n.e.c.

Helpers, mechanics and repairers

Helpers, construction and extractive occupations

Helpers, construction trades

Helpers, service

Helpers, extractive occupations

Construction laborers

Production helpers

Freight, stock, and material handlers

Garbage collectors

Stevedores

Stock handlers and buggers

Machine feeders and offhooners

Freight, stock, and material handlers, n.e.c.

Garage and service station related occupations

Vehicle washers and equipment cleaners

Hand packers and packagers

Laborers, except construction

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors; handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Total			Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
5 898 059	3 421 717		1 714 268	1 208 693	195 068	138 600	312 102	192 917	337 904	132 682	1 904 554	1 080 813	1 434 163	668 012
1 370 036	539 502		474 026	191 436	71 300	33 392	126 354	45 744	77 276	22 372	326 694	121 816	294 386	124 742
1 249 465	492 500		445 982	179 434	67 302	31 836	121 514	44 139	67 942	18 983	268 861	99 890	277 864	118 218
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—	—	—
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—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		—	—	—	—	—	—	—	—	—	—		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Finance, insurance, and real estate													
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	1 208	501	266	146	36	4	54	7	275	69	320	214	257	61
Managerial and professional specialty occupations—Con.	19	5	—	—	—	—	—	—	—	—	—	—	—	—
Professional specialty occupations—Con.	408	191	93	45	2	2	9	—	14	5	5	116	48	23
Natural scientists	88	53	25	25	2	2	6	7	116	42	18	11	30	17
Physicists and astronomers	187	66	16	6	—	—	—	—	—	—	—	—	—	—
Chemists, except biochemists	58	36	19	19	—	—	—	—	23	16	—	15	37	9
Mathematicians	210	62	83	22	32	—	20	—	11	18	15	6	22	5
Geologists and geodesists	76	24	13	13	—	—	12	—	26	6	35	35	66	3
Physical scientists, n.e.c.	127	44	—	—	—	—	—	—	7	7	—	—	4	4
Agricultural and food scientists	35	20	—	—	—	—	—	—	—	—	—	—	—	—
Biological and life scientists	1 298	409	134	41	30	16	—	—	61	15	931	321	142	16
Forestry and conservation scientists	1 146	357	101	15	23	9	—	—	55	15	855	309	112	9
Medical scientists	48	18	6	6	—	—	—	—	6	—	35	12	17	7
Health diagnosing occupations	33	7	7	—	7	7	—	—	—	—	18	—	—	—
Physicians	29	20	—	—	—	—	—	—	—	—	23	—	6	—
Dentists	20	20	—	—	—	—	—	—	—	—	—	—	—	—
Veterinarians	20	20	—	—	—	—	—	—	—	—	—	—	—	—
Optometrists	20	20	—	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	20	20	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	5 253	4 779	872	780	13	13	46	38	103	73	3 886	3 586	333	289
Health assessment and treating occupations	4 486	4 323	770	716	13	13	29	29	70	60	3 384	3 293	220	212
Registered nurses	178	69	17	17	—	—	—	—	—	—	148	52	13	—
Pharmacists	128	98	23	13	—	—	17	—	—	—	46	46	43	30
Dietitians	252	157	56	28	—	—	—	—	26	13	127	79	45	37
Therapists	209	132	6	6	—	—	—	—	7	7	181	116	10	10
Physicians' assistants	612	268	73	54	21	7	11	7	38	7	222	82	247	118
Teachers, postsecondary	2 114	925	362	240	77	73	624	78	12	58	550	257	406	219
Teachers, except postsecondary	30	10	8	—	—	—	—	—	—	—	10	10	—	—
Teachers, kindergarten and kindergarten	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	37	33	—	—	—	—	—	—	2	2	—	—	35	—
Teachers, special education	2 047	882	354	240	77	73	624	78	81	56	540	247	371	188
Teachers, n.e.c.	811	437	56	20	50	40	57	24	144	75	267	158	227	120
Counselors, educational and vocational	2 018	1 518	555	426	36	17	98	51	421	295	829	660	79	69
Librarians, archivists, and curators	1 744	1 419	478	404	36	34	372	34	372	289	768	620	56	56
Librarians	274	99	77	22	—	—	64	17	49	7	61	40	23	13
Archivists and curators	14 164	5 212	5 277	2 162	1 201	295	601	203	1 612	484	4 209	1 542	1 264	526
Social scientists and urban planners	13 476	4 939	5 217	2 141	1 164	289	570	191	1 587	472	3 952	1 418	988	428
Economists	236	106	20	2	6	6	12	6	19	12	160	80	19	6
Psychologists	103	57	—	—	—	—	—	—	—	—	17	6	—	—
Sociologists	324	104	34	19	14	6	—	—	—	—	45	28	10	4
Social scientists, n.e.c.	324	104	6	—	—	—	—	—	—	—	35	10	—	—
Urban planners	3 704	2 558	358	266	185	144	101	63	141	60	617	371	247	165
Social, recreation, and religious workers	3 183	2 291	303	233	145	127	93	55	118	52	515	329	2 302	1 654
Social workers	304	214	22	22	28	17	8	8	9	2	45	33	2 009	1 495
Recreation workers	205	53	33	11	12	—	—	—	14	6	57	9	192	132
Clergy	12	—	—	—	—	—	—	—	—	—	—	—	89	27
Religious workers, n.e.c.	16 159	2 962	2 680	526	384	88	676	139	1 664	310	8 333	1 426	2 422	473
Lawyers and judges	16 159	2 962	2 680	526	384	88	676	139	1 664	310	8 333	1 426	2 422	473
Lawyers	21 073	11 636	5 919	3 370	953	517	915	466	2 060	1 040	7 095	3 652	4 131	2 591
Judges	296	146	114	40	5	5	24	18	188	82	827	29	6	73
Writers, artists, entertainers, and athletes	2 813	1 106	468	265	66	60	124	48	340	149	914	390	133	72
Authors	132	47	23	282	64	19	—	—	27	12	12	6	53	394
Technical writers	132	47	23	282	64	19	—	—	27	12	12	6	53	394
Designers	132	47	23	282	64	19	—	—	27	12	12	6	53	394
Musicians and composers	132	47	23	282	64	19	—	—	27	12	12	6	53	394
Actors and directors	1 275	674	238	136	25	14	48	20	116	52	643	340	205	112
Painters, sculptors, craft-artists, and artist printmakers	674	276	130	58	—	—	47	14	15	6	194	60	288	138
Photographers	34	21	—	—	—	—	4	4	—	—	7	—	13	—
Dancers	339	176	55	29	13	4	—	—	50	29	67	49	154	69
Artists, performers, and related workers, n.e.c.	3 328	2 359	788	571	140	70	106	71	1 238	29	1 238	836	536	468
Editors and reporters	10 178	5 457	3 481	1 973	631	345	489	242	662	281	3 004	1 320	1 911	1 296
Public relations specialists	101	35	7	2	—	—	5	—	38	17	31	14	19	—
Advertising	101	35	7	2	—	—	5	—	38	17	31	14	19	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States													
Finance, insurance, and real estate													
Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
4 115 381	2 788 017	1 168 805	992 065	117 984	103 212	179 174	145 016	246 889	107 289	1 537 456	942 491	865 073	497 944
79 101	36 230	18 616	7 425	1 546	664	2 676	1 186	5 243	2 120	36 791	17 347	14 229	7 488
1 656	252	420	329	11	6	6	6	40	27	1 062	798	96	80
384	239	115	84	11	6	6	6	239	137	239	137	13	6
18	11	—	—	—	—	—	—	—	—	18	11	—	—
76	61	10	10	—	—	15	—	—	—	51	51	17	17
80	70	13	9	—	—	—	—	—	—	50	44	51	51
756	689	193	160	—	—	6	6	27	27	479	445	15	6
342	182	89	66	—	—	—	—	13	—	225	110	15	6
5 897	1 953	1 261	377	107	38	162	63	523	191	2 077	977	1 767	307
2 252	826	742	171	66	30	87	38	243	77	924	468	190	42
214	116	75	52	—	—	—	—	12	—	111	64	16	—
52	35	19	11	—	—	7	7	4	—	8	8	14	9
872	298	117	46	14	—	18	—	78	29	334	184	311	99
1 984	558	274	74	27	8	50	18	182	85	576	209	875	164
523	120	34	23	—	—	—	—	4	—	124	44	361	53
1 077	612	167	93	5	—	66	20	266	62	476	375	97	62
114	34	21	—	5	—	34	2	15	6	27	20	12	6
102	78	—	—	—	—	—	—	—	—	70	46	32	—
861	500	146	93	—	—	32	18	251	56	379	309	53	34
70 471	32 413	16 768	6 626	1 423	620	2 421	1 091	4 414	1 840	33 176	15 197	12 269	7 039
592	8	161	6	—	—	20	—	89	—	178	2	143	—
472	287	63	25	19	6	7	—	202	154	133	67	48	35
39 749	14 536	13 505	4 615	1 008	354	1 658	570	1 821	528	20 933	8 186	824	283
715	282	307	135	26	—	36	6	62	12	256	115	28	—
21 087	12 677	778	687	120	108	428	371	541	288	8 813	4 889	10 407	6 334
7 856	4 623	1 954	1 158	249	152	272	144	1 699	858	2 863	1 938	819	373
1 388 853	490 419	26 012	14 377	6 331	3 063	16 804	9 873	129 526	22 980	574 334	146 213	635 846	293 913
25 828	4 992	1 518	379	572	279	1 254	397	7 806	1 035	7 022	1 730	6 640	972
20 275	4 353	1 513	579	572	279	1 254	397	7 806	1 035	7 022	1 730	6 640	972
5 553	639	5	—	—	—	—	—	—	—	—	—	—	—
315 666	450 665	13 086	4 912	4 039	1 152	7 718	1 930	8 859	313	372	62	2 201	264
558 225	140 717	1 009	407	207	173	1 308	309	117 494	18 815	557 402	138 205	615 727	285 651
625 524	285 104	2 957	424	2 782	360	1 084	201	1 738	510	542 684	134 204	12 899	5 580
130 551	24 146	8 830	3 941	990	587	6 267	1 530	114 464	18 088	14 662	3 882	602 301	279 727
1 366	698	290	140	80	32	58	11	114 175	52	256	119	527	344
527	74	33	16	—	—	—	—	73	—	231	19	190	39
527	74	33	16	—	—	—	—	73	—	231	19	190	39
—	—	—	—	—	—	—	—	—	—	—	—	—	—
44 647	34 251	11 086	8 640	1 699	1 611	7 797	7 530	4 092	3 088	6 865	6 147	13 108	7 235
9 722	4 364	12	9	—	—	—	—	41	—	14	4	9 635	4 351
1 175	826	61	39	15	8	238	159	29	13	270	134	562	473
30 816	26 936	10 815	8 459	1 648	1 575	7 375	7 259	3 632	2 905	5 386	5 082	1 960	1 656
2 636	1 927	104	58	21	13	158	94	377	170	1 093	873	883	719
2 298	1 198	94	75	15	15	26	18	13	—	102	54	48	36
2 185	437	289	230	21	21	19	16	61	42	1 614	112	181	16
327	261	279	225	21	21	7	6	5	—	5	—	9	3
1 131	7	5	—	—	—	2	10	12	—	—	—	112	7
1 727	169	5	5	—	—	10	10	43	36	1 609	112	60	6
2 647 427	2 261 348	1 124 177	970 263	110 107	99 485	159 694	133 957	112 120	82 189	926 331	778 931	214 998	196 543
175 156	108 782	61 887	41 487	7 367	5 543	12 481	6 702	7 569	3 193	78 357	46 570	7 695	5 287
124 391	84 884	46 157	33 093	5 725	4 634	6 181	4 070	5 414	2 360	54 912	36 438	6 002	4 289
34 906	17 033	9 890	6 210	214	92	277	71	423	125	2 611	1 114	114	68
34 906	17 033	9 890	6 210	165	660	4 381	1 934	1 247	562	16 810	6 769	1 413	898
8 910	4 458	2 573	1 120	205	51	59	29	34	12	83	57	157	32
63 640	36 482	30 005	16 523	2 027	1 066	1 583	598	451	134	3 941	2 468	1 885	1 318
58 934	33 520	27 365	14 884	1 087	1 189	3 908	2 532	3 423	1 669	22 412	13 251	1 779	91
4 726	2 962	2 640	1 639	1 47	32	273	172	172	126	1 488	902	1 06	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Finance, insurance, and real estate													
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
648 523	641 862	147 957	18 021	17 679	37 392	37 106	38 981	38 331	292 286	289 771	112 265	111 018		
533 174	528 266	127 521	15 910	15 638	29 721	29 507	34 805	34 355	222 468	220 777	102 749	101 683		
4 940	4 568	846	74	66	414	414	1 030	1 030	6 774	6 597	422	409		
110 409	108 728	21 211	2 037	1 975	7 257	7 185	4 036	3 836	16 877	16 597	9 094	8 926		
80 065	72 284	31 827	4 018	3 754	9 881	8 655	4 199	3 319	16 877	16 104	13 263	12 338		
29 977	25 054	19 371	1 999	1 777	6 111	5 047	4 111	257	1 322	1 093	763	594		
209	78	210	26	20	80	65	28	25	237	200	209	78		
698	554	9 151	1 630	1 638	3 041	3 004	2 573	2 446	12 132	11 867	10 578	10 277		
39 125	38 212	3 095	3 343	3 319	4 601	4 230	1 187	591	3 186	2 944	1 396	1 302		
10 056	8 386	2 691	2 520	2 309	4 601	4 230	7 122	3 773	86 725	78 487	3 125	2 584		
137 817	119 219	33 724	27 836	24 3	11	3	4	4	5 276	4 809	1 843	1 517		
424	325	91	53	24	174	139	180	105	2 327	2 160	357	273		
6 461	5 555	749	34	27	661	560	2 107	1 944	23 763	21 608	402	382		
8 319	6 036	2 612	2 066	2 11	355	334	126	106	207	189	25	14		
26 203	23 817	1 284	184	165	19	19	19	19	36 788	33 895	1 843	1 517		
573	475	186	10	10	2 067	1 925	2 600	2 600	18 207	15 868	313	234		
60 033	54 476	16 619	826	759	3 114	2 550	1 890	1 399	92 162	84 904	39 456	36 191		
35 804	28 535	12 183	9 019	1 131	22 427	19 527	14 618	10 062	55 122	50 512	37 787	34 807		
337 721	304 735	160 331	8 727	7 921	20 939	18 233	13 507	10 422	2 577	2 430	918	807		
237 997	212 890	123 231	2 846	2 75	674	628	422	422	4 364	4 073	337	318		
8 193	7 254	3 231	159	116	381	324	370	370	28 080	26 090	262	120		
7 254	6 462	1 544	50	27	109	60	209	115	2 019	1 799	152	131		
29 223	26 740	513	358	27	324	282	115	85	3 473	2 710	399	161		
35 654	32 235	32 838	206	193	647	504	551	298	564	339	75	37		
11 954	8 191	6 585	4 307	299	44	21	109	61	157	97	9	9		
1 162	346	172	24	21	64	24	14	8	2 752	2 274	315	115		
518	331	187	18	6	539	459	428	229	4 062	3 746	1 820	1 532		
10 274	7 223	5 983	3 948	198	639	597	1 020	926	3 648	3 552	1 785	1 523		
15 452	14 492	7 977	7 096	595	618	576	893	808	20	20	6	9		
14 342	13 712	6 744	6 458	595	5	5	110	101	394	174	29	9		
342	275	312	289	1	16	16	17	17	14 877	9 175	2 598	941		
768	505	312	289	1	16	16	17	17	13 105	8 552	1 392	550		
44 890	17 274	19 522	4 804	616	1 394	764	5 285	974	1 772	623	1 206	391		
28 381	14 242	10 228	3 473	576	996	685	1 798	406	12 774	8 838	2 255	996		
16 509	3 032	9 294	1 331	40	398	79	3 487	568	328	252	175	87		
31 585	18 901	11 144	6 246	541	1 532	1 053	2 997	1 227	4 266	3 338	642	379		
9 238	6 453	2 227	2 67	2	29	6	126	38	2 882	1 145	371	86		
3 716	3 716	3 160	1 62	162	351	260	644	242	1 626	1 445	58	33		
8 706	3 270	3 018	69	32	272	169	504	210	28	28	7	7		
2 154	1 805	369	269	6	38	25	50	27	2 265	1 992	234	136		
68	61	11	7	3	3	3	12	12	296	193	56	25		
6 283	5 089	2 895	2 300	151	407	360	300	150	165 096	99 681	4 244	2 735		
530	327	97	66	7	42	22	32	21	163 586	98 407	1 820	1 048		
238 897	151 353	36 124	26 100	5 077	24 962	16 618	2 090	1 142	215	203	370	299		
163 586	98 407	28 207	21 729	4 805	16 159	12 442	1 723	959	1 295	1 071	2 054	1 388		
53 648	40 983	94	68	26	58	45	26	26	137 230	125 694	25 995	21 442		
763	11 322	7 823	4 303	272	8 745	4 131	341	157	89 541	82 247	19 763	16 603		
20 880	11 322	7 823	4 303	272	8 745	4 131	341	157	953	913	105	89		
861 707	767 793	576 373	514 643	54 050	39 830	35 669	24 265	16 275	29 530	28 321	1 731	1 628		
211 958	183 841	65 626	55 771	4 611	12 867	15 770	15 030	9 355	8 769	7 326	810	695		
494 851	451 445	435 032	395 432	46 944	12 875	11 885	58	58	6 805	6 405	3 533	2 460		
3 045	2 640	2 573	2 174	36	3 038	2 854	113	58	2 016	1 266	805	603		
64 903	59 166	23 573	21 704	783	3 038	2 854	5 775	4 976	2 016	1 266	805	603		
71 312	57 351	46 250	37 318	4 707	5 828	4 585	2 016	1 266	2 016	1 266	805	603		

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
Administrative support occupations, including clerical—Con.

Secretaries, stenographers, and typists

Secretaries

Stenographers

Typists

Information clerks

Hotel clerks

Transportation ticket and reservation agents

Receptionists

Information clerks, n.e.c.

Records processing occupations, except financial

Classified-ad clerks

Correspondence clerks

Order clerks

Personal clerks, except payroll and timekeeping

Library clerks

File clerks

Records clerks

Financial records processing occupations

Bookkeepers, accounting, and auditing clerks

Payroll and timekeeping clerks

Billing clerks

Cost and rate clerks

Billing, posting, and calculating machine operators

Duplicating, mail, and other office machine operators

Duplicating machine operators

Mail preparing and paper handling machine operators

Office machine operators, n.e.c.

Communications equipment operators

Telephone operators

Telegraphers

Communications equipment operators, n.e.c.

Mail and message distributing occupations

Postal carriers, except mail carriers

Mail clerks, except postal service

Messengers

Material recording, scheduling, and distributing clerks

Dispatchers

Production coordinators

Traffic, shipping, and receiving clerks

Stock and inventory clerks

Meter readers

Weighers, measurers, and checkers

Samplers

Expeditors

Material recording, scheduling, and distributing clerks, n.e.c.

Adjusters and investigators

Insurance adjusters, claim examiners, and investigators

Insurance policy clerks, except insurance

Eligibility clerks, social welfare

Bill and account collectors

Miscellaneous administrative support occupations

Office clerks

Bank tellers

Proofreaders

Data-entry keyers

Transcription clerks

Telephone clerks

Telephone operators

Telephone operators, n.e.c.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Employed persons 16 years and over—Con.														
Finance, insurance, and real estate														
Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-law offices		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
246 670	70 400	49 692	17 917	3 818	1 360	2 823	1 198	5 730	1 492	20 473	9 419	164 134	39 014	
35 394	3 058	15 086	1 181	609	28	322	7	2 562	321	2 592	289	14 223	1 232	
1 491	119	562	38	7	—	19	2	223	4	6	—	557	75	
24	—	—	—	—	—	—	—	18	—	—	—	—	—	
1 467	119	562	38	7	—	19	2	205	4	117	—	557	75	
378	37	31	15	9	—	24	—	239	13	239	13	75	9	
264	22	9	15	9	—	2	—	231	13	231	13	62	—	
114	15	22	15	—	—	—	—	22	—	8	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
33 525	2 902	14 493	1 128	593	28	303	5	2 315	317	2 230	276	13 591	1 148	
76	17	8	2	—	—	—	—	15	—	6	—	47	—	
32 883	2 674	14 430	1 114	593	28	303	5	2 260	296	2 212	270	13 085	961	
566	211	55	12	—	—	—	—	40	6	12	6	459	187	
211 276	67 342	34 606	16 736	3 209	1 332	2 501	1 191	3 148	1 171	17 881	9 130	149 911	37 782	
11 057	7 641	3 539	2 691	225	191	179	108	482	242	3 105	2 281	3 427	2 128	
942	529	334	216	27	22	6	—	61	7	246	113	268	171	
433	237	162	153	47	29	48	33	159	107	633	526	1 624	819	
2 534	2 003	613	489	92	86	34	17	107	64	881	599	1 064	606	
3 300	2 262	1 306	890	47	29	48	33	159	107	633	526	1 064	606	
47	43	23	23	12	12	14	7	18	8	6	6	10	6	
240	188	72	65	12	12	14	7	18	8	6	6	60	34	
414	358	138	115	18	18	12	4	34	18	147	129	99	97	
737	437	187	160	6	6	21	10	34	18	214	182	275	61	
2 410	1 584	804	580	23	18	44	37	78	35	921	661	540	253	
2 201	1 952	479	369	—	—	13	13	48	43	1 020	951	641	576	
52	46	6	6	—	—	—	—	—	—	29	29	17	17	
273	233	43	25	—	—	—	—	10	5	166	161	54	42	
1 876	1 673	430	344	—	—	13	13	38	38	825	761	570	517	
185 482	53 004	29 590	12 936	2 795	995	2 232	1 006	2 262	685	12 989	5 265	135 614	32 117	
7 277	909	632	101	62	62	50	8	171	17	518	134	5 844	649	
21 356	14 045	2 665	1 886	136	103	155	132	195	144	1 780	1 313	16 425	10 467	
150 116	37 100	25 799	10 740	2 579	892	2 002	849	1 805	499	10 479	3 750	107 452	20 370	
6 383	3 899	494	209	18	—	25	17	91	25	185	68	5 570	580	
350	51	—	—	—	—	—	—	—	—	27	—	323	51	
12 536	4 745	898	740	189	146	77	64	376	201	767	633	10 229	2 961	
191	89	20	9	8	—	16	16	9	2	26	26	112	36	
59	26	6	—	—	—	—	—	—	—	2	—	51	—	
266	212	26	26	—	—	—	—	—	—	8	—	232	186	
576	275	20	13	10	—	15	9	48	5	38	38	445	210	
167	169	26	13	—	—	11	11	41	41	23	14	141	90	
357	177	78	39	5	—	—	—	38	12	71	41	165	85	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
52	—	3	—	—	—	—	—	—	—	6	—	43	—	
778	452	56	41	—	—	7	7	54	44	98	76	563	284	
10 015	3 345	663	599	166	146	28	21	186	97	495	438	8 477	2 044	
30 974	1 562	459	65	99	14	95	16	311	25	378	23	29 632	1 419	
48	32	20	13	7	7	—	—	—	—	—	—	21	12	
30 769	1 512	419	40	92	7	95	16	289	25	369	23	29 505	1 401	
2 227	52	5	—	—	—	—	—	6	—	29	—	2 187	47	
28 463	1 438	386	40	92	7	95	16	283	25	334	12	27 273	1 338	
27	11	—	—	—	—	—	—	—	—	—	—	27	11	
52	11	28	—	—	—	—	—	—	—	6	6	18	5	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Finance, insurance, and real estate															
Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
114	6	—	—	—	—	—	—	22	—	—	—	92	6		
25	—	—	—	—	—	—	—	—	—	—	—	25	—		
47	—	—	—	—	—	—	—	—	—	—	—	47	—		
12	12	20	12	—	—	—	—	22	—	9	—	14	—		
22	7	8	7	—	—	—	—	—	—	—	—	14	—		
7	7	—	—	—	—	—	—	—	—	—	—	—	—		
14	5	5	5	—	—	—	—	—	—	9	—	—	—		
77	7	8	2	785	241	1	491	2	700	8	351	55	2		
105	911	2	380	173	33	424	40	751	351	1	1	12	385		
18	1	2	380	173	33	424	40	751	351	1	1	12	258		
317	892	2	331	169	33	387	38	696	50	1	130	11	19		
16	793	53	25	20	15	155	20	166	166	1	581	11	239		
1	282	103	15	20	15	123	6	105	105	183	21	1	7		
69	5	—	—	—	—	—	—	—	—	2	21	748	7		
99	—	11	5	—	—	6	—	25	13	13	—	58	—		
91	—	7	—	—	—	22	—	5	—	7	—	14	—		
144	5	28	5	—	—	—	—	—	—	—	—	94	—		
36	—	6	—	—	—	4	—	19	—	—	—	55	—		
3	159	603	69	47	—	40	3	75	—	318	36	2	51		
27	252	430	125	17	6	14	5	114	11	233	74	13	20		
1	598	—	—	—	—	39	16	—	—	—	—	765	—		
327	46	89	34	—	—	—	—	49	2	63	10	126	—		
471	120	238	51	17	6	9	—	40	3	132	46	35	14		
537	8	37	8	—	—	—	—	—	—	6	—	494	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
233	61	66	32	—	—	19	5	19	6	32	18	97	—		
30	17	—	—	—	—	11	11	6	—	—	—	13	6		
2	125	181	112	25	—	21	14	61	—	229	—	1	21		
7	858	1	3	60	27	118	—	280	39	596	70	5	140		
38	8	3	3	—	—	—	—	4	—	17	5	14	—		
338	—	135	20	—	—	—	—	43	—	31	6	127	—		
447	26	283	20	21	—	10	—	6	—	100	6	27	—		
12	36	55	12	—	—	2	2	3	—	—	—	7	—		
555	8	—	—	—	—	4	—	28	8	39	6	457	18		
101	88	186	8	6	—	5	—	—	—	21	10	47	70		
3	541	387	69	33	27	30	14	54	31	145	43	3	52		
2	826	—	—	—	—	67	—	144	—	243	—	1	—		
39	871	2	246	321	29	246	64	746	69	1	109	34	573		
7	633	610	152	130	11	75	3	123	30	919	30	6	300		
13	—	—	—	—	—	—	—	—	—	313	—	8	—		
272	9	47	6	—	—	—	—	7	—	22	—	196	—		
169	9	13	6	—	—	3	3	6	—	46	—	101	—		
105	7	13	7	130	11	72	—	—	—	—	—	105	—		
40	480	537	139	191	18	171	61	623	69	242	30	27	300		
7	594	1	94	191	18	171	61	623	69	1	606	28	273		
32	238	324	20	—	—	7	—	—	—	20	20	55	—		
75	20	8	—	—	—	—	—	—	—	9	—	154	21		
189	21	26	31	82	—	78	15	157	2	542	6	9	256		
10	782	592	25	14	—	16	16	237	41	11	5	223	8		
29	265	468	7	—	—	14	10	—	—	465	17	1	663		
2	861	19	19	—	—	6	6	—	—	—	—	2	—		
13	932	302	—	20	—	7	—	167	26	361	20	11	907		
12	198	—	—	—	—	—	—	—	—	—	—	11	117		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Finance, insurance, and real estate

	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Construction trades—Con.														
Construction trades, except supervisors—Con.														
Plasterers	372	—	11	—	—	—	—	—	9	—	6	—	340	—
Plumbers, pipefitters, and steamfitters	3 711	39	79	9	12	—	31	—	14	—	156	11	3 419	19
Concrete and masonry finishers	143	16	9	9	6	—	7	7	—	—	4	—	29	—
Glaziers	63	—	6	—	—	—	5	—	—	—	24	—	28	—
Insulation workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	177	11	19	6	—	—	—	—	—	—	—	—	158	5
Roofers	7	—	—	—	—	—	—	—	—	—	—	—	7	—
Sheetmetal duct installers	7	—	—	—	—	—	—	—	—	—	—	—	7	—
Structural metal workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Drillers, earth	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction trades, n.e.c.	348	30	7	7	—	—	—	—	7	—	8	—	326	23
Extractive occupations	164	22	22	10	—	—	8	—	91	—	43	—	14	—
Supervisors, extractive occupations	79	7	12	7	—	—	8	—	45	—	—	—	—	—
Drillers, oil well	23	—	7	—	—	—	—	—	16	—	—	—	—	—
Mining machine operators	5	—	—	—	—	—	—	—	5	—	—	—	—	—
Mining occupations, n.e.c.	34	10	3	3	—	—	—	—	7	—	—	—	24	7
Mining occupations, n.e.c.	23	5	—	—	—	—	—	—	18	—	—	—	5	—
Precision production occupations	18 753	4 778	3 485	1 400	291	179	813	248	1 112	217	4 822	1 972	8 030	542
Supervisors, production occupations	10 400	4 122	2 486	1 394	226	154	675	236	753	153	3 790	1 815	2 470	370
Precision metalworking occupations	822	72	125	25	8	—	42	—	69	7	98	12	480	21
Tool and die makers	16	6	—	—	—	—	—	—	2	—	14	6	12	—
Precision assemblers, metal	12	4	—	—	—	—	—	—	—	—	6	—	6	—
Machinists	406	46	107	20	8	—	29	—	59	7	54	6	149	16
Boilermakers	267	5	11	—	—	—	—	—	—	—	8	—	248	—
Precision grinders, filers, and tool sharpeners	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Patternmakers and model makers, metal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lay-out workers	19	—	—	—	—	—	—	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	30	—	5	—	—	—	—	—	—	—	—	—	14	—
Engravers, metal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheet metal workers	60	12	2	—	—	—	13	7	8	—	8	—	22	—
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	—	—	—	—	29	5
Precision woodworking occupations	97	30	8	8	—	—	—	—	12	12	31	—	46	10
Perfume makers and model makers, wood	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	65	—	—	—	—	—	—	—	—	—	29	—	36	—
Furniture and wood finishers	12	10	—	—	—	—	—	—	—	—	2	—	10	—
Miscellaneous precision woodworkers	20	20	8	8	—	—	—	—	12	12	—	—	—	—
Precision textile, apparel, and furnishings machine workers	157	61	15	10	—	—	—	—	8	8	63	24	71	19
Dressmakers	52	27	3	3	—	—	—	—	8	8	15	8	26	8
Tailors	62	25	12	7	—	—	—	—	—	—	18	7	32	11
Leatherworkers	30	9	—	—	—	—	—	—	—	—	30	9	—	—
Shoe repairers	6	—	—	—	—	—	—	—	—	—	—	—	6	—
Apparel and fabric patternmakers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	7	—	—	—	—	—	—	—	—	—	—	—	7	—
Precision workers, assorted materials	361	177	61	35	—	—	18	13	37	24	111	67	134	38
Hand molders and shapers, except jewelers	92	20	4	—	—	—	14	9	—	—	—	—	74	11
Patternmakers, lay-out workers, and cutters	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Optical goods workers	31	13	7	—	—	—	—	—	—	—	10	8	14	5
Dental laboratory and medical appliance technicians	44	31	11	5	—	—	—	—	—	—	26	26	7	—
Bookbinders	83	38	15	15	—	—	4	4	5	—	38	9	21	10
Electrical and electronic equipment assemblers	42	36	24	15	—	—	—	—	24	24	37	24	18	12
Miscellaneous precision workers, n.e.c.	69	39	—	—	—	—	—	—	8	—	—	—	—	—
Precision food production occupations	414	152	114	62	—	—	17	—	58	13	126	35	99	42
Butchers and meat cutters	216	30	49	10	—	—	17	—	52	13	52	35	58	7
Bakers	172	107	39	37	—	—	—	—	40	13	74	35	41	35
Food technicians	26	15	26	15	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers	204	44	52	22	14	7	14	7	—	—	56	8	68	—
Inspectors, testers, and graders	166	25	28	10	7	—	7	—	—	—	56	8	—	—
Adjusters and calibrators	38	19	24	12	7	—	7	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Finance, insurance, and real estate													
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Precision production occupations—Con.														
Plant and system operators	6 298	120	824	44	43	18	47	5	175	—	547	11	4 662	42
Water and sewage treatment plant operators	29	—	—	—	—	—	—	—	—	—	—	—	29	—
Power plant operators	46	16	10	10	6	6	—	—	—	—	—	—	30	—
Conveyer system operators	6 155	64	786	28	25	12	47	5	169	—	547	11	4 581	42
Miscellaneous plant and system operators	68	40	28	28	12	12	—	—	6	—	—	—	22	—
Operators, fabricators, and laborers	57 893	14 325	12 836	4 974	1 082	381	2 165	571	4 998	1 153	11 101	4 738	25 711	2 508
Machine operators, assemblers, and inspectors	22 707	9 718	6 211	3 510	513	276	974	433	2 315	849	7 956	3 978	4 738	872
Machine operators and tenders, except precision	18 530	8 199	5 123	2 866	412	216	799	351	1 669	640	6 739	3 420	3 788	706
Metalworking and plastic working machine operators	480	278	210	136	5	5	19	19	64	7	107	97	75	14
Lathe and turning machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lathe and turning machine set-up operators	199	159	94	73	—	—	19	19	12	—	62	62	12	5
Milling and planing machine operators	31	12	10	10	—	—	—	—	11	—	17	7	10	2
Punching and stamping press machine operators	56	13	36	6	—	—	—	—	5	—	—	—	3	—
Rolling machine operators	23	14	18	14	—	—	—	—	7	—	—	—	—	—
Drilling and boring machine operators	18	18	6	6	5	5	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	119	50	27	15	—	—	—	—	21	—	28	28	43	7
Forging machine operators	15	—	7	—	—	—	—	—	8	—	—	—	7	—
Numerical control machine operators	7	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	12	12	12	12	—	—	—	—	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	21	15	—	—	—	—	—	—	—	—	—	—	—	—
Metal and plastic processing machine operators	367	157	55	22	21	—	—	—	13	7	12	6	9	37
Molding and casting machine operators	341	131	55	22	21	—	—	—	13	7	220	91	32	11
Metal plating machine operators	26	26	—	—	—	—	—	—	—	—	—	—	26	—
Heat treating equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal and plastic processing machine operators	73	—	—	—	—	—	6	—	13	11	19	19	35	7
Woodworking machine operators	29	19	—	—	—	—	—	—	—	—	—	—	—	—
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sawing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shaping and jointing machine operators	18	13	—	—	—	—	—	—	6	6	7	7	5	—
Noting and locking machine operators	26	5	—	—	—	—	6	—	7	5	—	—	13	—
Miscellaneous woodworking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Printing machine operators	6 516	2 128	1 941	739	220	60	235	55	485	118	3 331	1 051	304	105
Printing machine operators	5 446	1 338	1 680	529	203	43	181	17	422	80	2 726	614	234	55
Photographers and lithographers	221	136	28	18	5	5	4	4	6	6	149	86	34	28
Typesetters and compositors	570	461	110	93	12	12	23	23	47	34	360	295	25	11
Miscellaneous printing machine operators	279	193	123	99	20	20	25	25	50	20	114	80	345	218
Textile, apparel, and furnishings machine operators	629	417	75	54	7	7	—	—	—	—	—	—	—	—
Winding and twisting machine operators	7	7	—	—	—	—	—	—	—	—	—	—	—	—
Knitting, looping, rapping, and weaving machine operators	11	11	11	11	—	—	—	—	—	—	—	—	—	—
Textile cutting machine operators	22	16	—	—	—	—	—	—	—	—	—	—	—	—
Textile sewing machine operators	127	121	20	20	5	5	9	9	8	8	35	29	50	50
Shoe machine operators	24	19	—	—	—	—	5	5	—	—	8	8	11	6
Pressing machine operators	6	6	—	—	—	—	—	—	6	6	—	—	—	—
Laundering and dry cleaning machine operators	332	208	23	23	8	8	—	—	6	6	43	21	252	156
Miscellaneous textile machine operators	100	29	21	21	—	—	11	11	30	6	6	6	32	6
Machine operators, assorted materials	10 444	5 167	2 842	1 915	146	131	514	252	1 044	477	2 936	2 076	2 962	316
Cementing and gluing machine operators	82	13	—	—	—	—	3	3	16	5	16	5	66	8
Packaging and filling machine operators	103	49	7	7	—	—	—	—	19	18	24	18	51	25
Extruding and forming machine operators	26	12	—	—	—	—	—	—	—	—	—	—	—	—
Mixing and blending machine operators	677	563	236	157	31	31	55	48	11	9	332	312	23	15
Separating, filtering, and clarifying machine operators	41	13	13	8	—	—	—	—	17	12	20	12	6	—
Compressing and compacting machine operators	590	50	10	10	—	—	13	—	—	—	—	—	530	38
Roasting and baking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Washing, cleaning, and picking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-law offices	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Operators, fabricators, and laborers—Con.													
Machine operators, assemblers, and inspectors—Con.													
Machine operators and tenders, except precision—Con.													
Machine operators, assorted materials—Con.													
24	6	—	—	—	—	—	—	8	—	11	6	5	—
1 252	30	48	—	—	—	—	—	23	—	85	—	1 096	30
43	11	11	—	—	—	—	—	28	—	—	—	4	—
233	36	78	20	17	8	7	—	18	—	67	8	46	—
27	6	—	—	—	—	6	—	—	—	6	6	15	—
1 367	840	363	215	31	31	49	20	136	74	663	462	125	38
3 233	2 284	1 135	852	52	52	228	141	371	203	1 140	938	307	98
2 699	1 223	917	635	15	9	153	40	391	186	535	289	688	64
Miscellaneous machine operators, n.e.c.													
1 857	845	382	229	74	60	78	55	289	122	448	328	586	51
463	109	85	48	38	31	15	15	70	19	34	15	221	—
42	25	23	6	—	—	—	—	—	—	—	—	—	—
906	487	128	66	13	13	47	31	105	63	370	285	243	29
Assemblers													
10	—	—	—	—	—	—	—	—	—	—	—	—	—
64	—	7	—	—	—	—	—	17	—	—	—	40	—
113	40	18	7	—	—	—	—	—	—	29	20	66	13
Hand cutting and trimming occupations													
—	—	—	—	—	—	—	—	—	—	—	—	—	—
259	184	121	102	23	16	16	9	73	40	15	8	11	9
Miscellaneous hand working occupations													
2 320	874	706	415	27	—	97	27	357	87	769	230	364	115
1 466	375	89	56	27	—	89	27	656	59	656	131	333	102
13	11	4	4	—	—	—	—	2	—	7	7	—	—
29	5	—	—	—	—	8	—	16	—	5	5	—	—
812	483	613	355	—	—	—	—	67	28	101	87	31	13
Transportation and material moving occupations													
13 377	1 481	4 449	742	383	50	801	18	1 601	58	1 307	162	4 836	451
10 305	857	3 732	252	356	31	751	18	1 074	58	1 074	107	3 133	391
131	15	61	15	6	—	11	—	17	—	17	—	19	—
3 250	146	526	32	51	21	485	—	708	13	301	11	1 179	69
1 871	308	771	79	81	21	99	—	174	12	304	63	442	154
299	24	142	7	7	—	6	—	48	—	55	6	41	—
454	105	60	17	7	—	17	12	—	—	25	13	345	63
1 941	108	787	19	50	10	110	6	295	28	257	12	442	33
2 301	151	1 356	90	154	—	15	—	17	5	115	2	644	54
58	—	29	—	—	—	8	—	—	—	—	—	21	—
53	9	8	—	8	—	—	—	8	—	—	—	29	9
Rail transportation occupations													
—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	9	2	—	8	—	—	—	8	—	—	—	17	9
18	—	6	—	—	—	—	—	—	—	—	—	12	—
Water transportation occupations													
121	29	29	29	—	—	6	—	29	—	—	—	57	—
57	10	10	10	—	—	—	—	23	—	—	—	24	—
39	—	—	—	—	—	—	—	6	—	—	—	33	—
6	—	—	—	—	—	—	—	—	—	—	—	—	—
19	19	19	19	—	—	—	—	—	—	—	—	—	—
Material moving occupations													
2 898	586	680	461	19	19	44	—	305	—	233	55	1 617	51
107	34	45	14	—	—	—	—	—	—	28	34	34	—
469	24	51	12	—	—	—	—	34	—	60	—	324	12
—	—	—	—	—	—	—	—	—	—	—	—	—	—
55	7	15	7	—	—	—	—	—	—	—	—	40	—
101	—	8	—	—	—	—	—	—	—	—	—	53	—
598	9	—	—	—	—	7	—	40	—	—	—	—	—
291	6	10	—	—	—	8	—	23	—	2	—	566	9
433	30	54	10	—	—	13	—	107	—	18	—	248	6
844	476	497	418	19	19	16	—	94	—	34	6	225	14
—	—	—	—	—	—	—	—	—	—	91	29	127	10

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Finance, insurance, and real estate													
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Operators, fabricators, and laborers—Con.														
Handlers, equipment cleaners, helpers, and laborers	21 809	2 926	2 176	722	186	55	390	120	1 082	246	1 838	598	16 137	1 185
Supervisors; handlers, equipment cleaners, and laborers, n.e.c.	333	105	55	25	22	6	40	6	—	—	97	61	119	7
Helpers, mechanics and repairers	182	—	22	—	—	—	—	—	—	—	14	—	146	—
Helpers, construction and extractive occupations	422	48	26	12	—	—	—	—	3	—	14	—	379	36
Helpers, construction trades	392	36	14	—	—	—	—	—	3	—	14	—	361	36
Helpers, surveyor	30	12	12	12	—	—	—	—	—	—	—	—	18	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	1 916	58	104	—	19	5	7	—	58	6	72	—	1 656	47
Production helpers	302	74	57	25	—	—	13	—	11	—	70	22	151	27
Freight, stock, and material handlers	2 343	547	626	247	35	14	60	25	347	69	515	108	760	140
Garage collectors	155	22	11	5	—	—	—	—	—	—	7	—	137	—
Stewards	15	2	—	—	—	—	9	2	6	45	278	12	289	55
Stock handlers and helpers	1 095	242	377	124	6	—	18	6	127	7	278	5	13	—
Machine tenders and operators	34	—	9	—	—	—	—	—	207	24	225	89	321	19
Freight, stock, and material handlers, n.e.c.	1 044	281	229	118	29	14	33	17	207	24	225	89	321	19
Garage and service station related occupations	340	17	87	6	—	—	30	6	34	—	32	5	157	—
Vehicle washers and equipment cleaners	252	33	19	5	—	—	48	—	8	—	14	14	163	14
Hand packers and packagers	435	270	148	120	8	8	44	25	59	39	78	59	98	19
Laborers, except construction	15 284	1 774	1 032	282	102	22	148	58	562	132	932	329	12 508	951

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services

United States	Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	4 081 677	1 380 020	207 638	97 454	336 303	123 079	236 802	74 941	248 755	184 152	337 117	170 090
Managerial and professional specialty occupations	955 957	314 238	87 775	32 713	23 639	4 504	95 792	17 088	95 541	61 907	197 655	75 183
Executive, administrative, and managerial occupations	614 233	196 396	48 537	17 741	22 528	4 213	31 543	7 154	69 716	39 499	156 685	60 942
Legislators, chief executives, and general administrators; public administration	-	-	-	-	-	-	-	-	-	-	-	-
Administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-	-	-	-	-
Local	-	-	-	-	-	-	-	-	-	-	-	-
Administrators, protective services	75	12	10	829	-	-	6	-	15	-	12	-
Financial managers	13 327	4 224	2 152	272	189	48	865	144	472	218	2 142	746
Personnel and labor relations managers	13 750	5 278	561	272	661	215	773	235	3 712	1 927	1 814	847
Purchasing managers	1 996	555	128	46	29	-	500	95	76	23	274	105
Managers, marketing, advertising, and public relations	37 720	8 047	12 181	3 768	1 191	102	925	102	1 004	452	4 909	1 084
Administrators, education and related fields	945	430	17	2	21	8	248	75	78	53	328	186
Managers, medicine and health	-	-	-	-	-	-	-	-	-	-	-	-
Managers, properties and real estate	2 430	497	122	34	124	17	112	23	24	7	347	119
Postmasters and mail superintendents	-	-	-	-	-	-	-	-	-	-	-	-
Federal directors	102	16	-	-	-	-	-	-	6	-	4	-
Managers and administrators, n.e.c.	330 495	83 320	26 294	8 865	18 595	3 340	21 108	4 026	15 236	7 814	38 928	14 992
Salaried	274 599	72 460	22 922	8 133	12 913	2 354	20 566	3 885	13 432	6 923	34 515	13 545
Self-employed	55 896	10 860	3 372	732	5 682	986	542	141	1 804	891	4 413	1 447
Management related occupations	213 393	94 017	7 072	3 925	1 718	483	7 006	2 454	49 093	29 005	107 927	42 851
Accountants and auditors	31 591	15 126	3 491	1 914	477	209	2 071	884	2 278	1 282	8 885	4 313
Underwriters	114	60	-	-	-	-	20	30	-	-	-	-
Other financial officers	45 162	27 410	312	153	33	13	436	195	195	134	41 249	25 840
Management analysts	55 875	10 415	307	58	46	204	868	203	466	179	49 775	8 871
Personnel, training, and labor relations specialists	64 188	35 080	789	395	869	204	1 791	801	45 668	27 150	5 813	2 956
Purchasing agents and buyers, farm products	-	-	-	-	-	-	-	-	-	-	-	-
Buyers, wholesale and retail trade except farm products	8 106	3 588	1 937	1 283	49	12	1 012	352	87	37	678	366
Business and promotion agents	2 458	1 037	140	73	3	-	28	6	165	117	852	272
Business and promotion agents, n.e.c.	960	55	36	12	142	21	328	17	63	37	37	10
Construction inspectors	3 835	759	40	37	92	7	325	50	85	47	262	51
Inspectors and compliance officers, except construction	1 104	487	60	37	7	-	127	39	86	59	346	153
Management related occupations, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-
Professional specialty occupations	341 724	117 842	39 238	14 972	1 111	291	64 249	9 934	25 825	22 408	40 970	14 241
Engineers, architects, and surveyors	52 608	2 521	225	57	193	17	30 383	1 244	341	58	4 626	270
Architects	853	34	20	-	-	-	15	15	15	6	208	53
Engineers	51 482	2 324	196	48	193	17	30 176	1 229	306	40	4 319	182
Aerospace engineers	1 156	47	-	-	-	-	631	18	18	-	206	9
Metalurgical and materials engineers	1 003	58	2	-	-	-	909	58	-	-	25	-
Mining engineers	111	-	-	-	-	-	34	-	-	-	64	-
Petroleum engineers	209	113	6	-	-	-	127	-	-	-	14	-
Chemical engineers	2 130	114	-	-	-	-	1 701	86	-	-	234	12
Nuclear engineers	1 781	91	-	-	-	-	1 640	76	-	7	42	9
Civil engineers	1 729	79	-	-	68	17	708	42	8	-	383	6
Agricultural engineers	51	-	-	-	-	-	29	-	-	-	-	-
Electrical and electronic engineers	12 554	422	38	-	11	-	6 905	217	71	-	684	32
Industrial engineers	3 377	453	67	42	47	-	1 336	79	47	20	428	40
Mechanical engineers	4 623	125	13	-	40	-	2 855	58	17	-	277	11
Marine engineers and naval architects	174	12	-	-	72	-	12	12	-	-	18	-
Engineers, n.e.c.	22 584	910	70	6	25	-	13 229	577	131	13	1 938	69
Surveyors and mapping scientists	273	63	9	-	-	-	22	-	20	12	99	35
Mathematical and computer scientists	57 188	12 198	197	58	49	17	6 180	1 372	531	180	5 795	1 654
Computer systems analysts and scientists	46 622	9 246	119	33	43	7	3 773	82	296	82	2 237	514
Operations and systems researchers and analysts	6 508	1 507	30	8	10	-	1 279	225	77	45	1 714	401
Actuaries	941	295	15	15	11	-	6	-	17	-	799	275
Statisticians	2 319	977	27	15	5	-	641	219	141	53	925	422
Mathematical scientists, n.e.c.	798	173	6	2	-	-	481	102	-	-	120	42

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Business and repair services									
Occupation	Total	Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personal supply services		Business management and consulting services	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Managerial and professional specialty occupations—Con.											
Professional specialty occupations—Con.											
Natural scientists	21 816	4 293	13	230	18	17 773	3 381	144	80	1 837	432
Physicists and astronomers	4 533	1 155	—	—	—	4 004	1 133	6	—	170	16
Chemists, except biochemists	9 056	1 964	—	55	—	7 894	1 682	20	4	410	109
Atmospheric and space scientists	425	354	—	—	—	240	9	—	—	64	5
Geologists and geodesists	1 889	324	—	—	—	941	175	72	61	400	55
Physical scientists, n.e.c.	1 976	168	8	124	—	769	147	6	—	198	77
Agricultural and food scientists	2 951	911	5	23	5	698	148	7	—	81	12
Biological and life scientists	2 945	22	—	16	—	2 464	743	14	8	315	112
Forestry and conservation scientists	895	414	—	12	5	708	338	5	—	97	10
Medical scientists	1 031	239	19	10	10	471	72	66	19	129	19
Health diagnosing occupations	685	160	7	10	10	295	45	40	15	115	19
Physicians	49	24	7	—	—	8	—	—	—	—	—
Dentists	161	21	—	—	—	144	21	—	—	—	—
Veterinarians	7	—	—	—	—	7	—	—	—	—	—
Optometrists	70	10	5	—	—	6	—	18	—	9	—
Podiatrists	59	24	—	—	—	11	—	8	—	5	—
Health diagnosing practitioners, n.e.c.	22 556	21 204	70	60	47	582	475	20 291	19 468	651	523
Health assessment and treating occupations	20 735	19 943	54	44	37	392	361	19 380	18 695	530	313
Registered nurses	210	54	—	—	—	29	—	10	—	10	—
Pharmacists	436	54	12	8	2	117	82	35	30	172	105
Podiatrists	1 098	882	7	8	8	38	26	821	695	114	81
Therapists	77	43	—	—	—	6	—	45	38	12	5
Physicians' assistants	799	292	6	11	4	86	16	167	86	86	56
Teachers, postsecondary	4 459	2 185	36	65	12	347	123	567	363	627	335
Teachers, except postsecondary	15	15	—	—	—	—	—	—	—	—	—
Teachers, prekindergarten and kindergarten	96	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	4 348	2 126	36	65	12	335	117	538	340	613	332
Teachers, special education	1 779	834	11	14	—	79	23	679	602	268	268
Teachers, n.e.c.	2 381	1 311	110	13	—	613	558	53	32	496	443
Counselors, educational and vocational	2 192	1 874	131	7	—	587	20	45	29	481	426
Librarians, archivists, and curators	1 189	96	—	6	—	26	—	8	3	15	15
Archivists and curators	16 052	5 269	709	56	19	1 643	532	327	151	8 261	2 531
Social scientists and urban planners	13 680	4 575	709	35	5	1 098	339	254	124	6 930	2 177
Economists	1 034	300	—	14	14	311	115	64	24	531	108
Psychologists	1 138	58	—	7	—	41	20	9	—	38	38
Sociologists	649	170	—	—	—	149	41	—	—	71	71
Social scientists, n.e.c.	531	166	—	—	—	44	17	3	—	288	85
Urban planners	2 943	1 723	6	43	22	86	86	114	746	441	123
Social, recreation, and religious workers	2 634	1 617	6	—	22	102	61	1 048	732	549	302
Social workers	219	77	—	—	—	26	18	—	8	478	288
Recreation workers	52	19	—	—	—	13	7	6	6	22	6
Clergy	38	10	—	—	—	—	—	—	—	6	—
Religious workers, n.e.c.	2 807	471	21	11	—	394	49	177	65	594	97
Lawyers and judges	2 807	471	21	11	—	394	49	177	65	594	97
Lawyers	155 375	64 643	13 856	336	125	5 557	2 003	1 368	776	16 717	7 311
Judges	1 208	453	128	7	—	113	45	5	—	270	119
Writers, artists, entertainers, and athletes	2 815	887	271	7	—	1 257	539	113	45	1 555	817
Authors	51 957	23 663	3 395	103	45	1 641	190	284	61	2 974	839
Technical writers	1 837	181	22	19	6	15	9	9	—	60	21
Designers	1 972	917	1423	21	14	38	14	78	52	82	25
Musicians and composers	34 975	14 868	4 581	21	14	687	382	107	65	614	337
Actors and directors	21 29	4 778	144	30	—	397	60	78	39	211	68
Painters, sculptors, craft-artists, and artist printmakers	2 588	1 169	429	6	—	55	—	21	—	144	—
Photographers	17 426	8 417	3 274	12	—	483	—	204	21	144	93
Dancers, performers, and related workers, n.e.c.	15 099	7 059	1 113	17	—	542	267	474	314	2 627	1 295
Editors and reporters	891	45	—	—	—	11	—	27	—	6 627	3 494
Public relations specialists	—	—	—	—	—	—	—	—	—	—	—
Communications workers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Business and repair services											
	Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations	1 237 120	798 907	94 871	59 017	27 478	18 217	104 138	51 128	106 158	93 485	124 560	89 930
Technicians and related support occupations	190 979	56 568	1 811	804	742	129	57 625	15 420	11 943	10 288	11 766	4 527
Health technicians and technicians	12 867	10 998	8	—	18	14	2 067	1 100	9 975	9 460	214	110
Clinical laboratory technicians and technicians	1 354	793	—	—	—	—	1 078	669	54	28	31	18
Dental hygienists	33	10	—	—	—	—	13	—	10	10	6	—
Health record technicians and technicians	75	63	—	—	—	—	18	13	10	10	14	7
Radiologic technicians	241	107	—	—	4	—	181	87	30	20	8	—
Licensed practical nurses	10 113	9 573	—	—	6	8	101	64	9 817	9 340	46	46
Health technicians and technicians, n.e.c.	1 051	452	8	—	6	6	676	267	54	52	109	39
Engineering and related technicians and technicians	65 975	13 660	657	271	146	20	27 744	6 954	816	242	3 396	952
Electrical and electronic technicians	20 125	1 703	175	43	40	—	5 007	392	103	21	485	103
Industrial engineering technicians	189	30	—	—	11	—	40	2	—	—	26	—
Mechanical engineering technicians	761	47	—	—	—	—	609	24	—	—	—	—
Engineering technicians, n.e.c.	23 323	6 930	72	27	41	12	18 807	5 870	177	80	613	220
Drafting occupations	20 424	4 375	410	201	54	8	3 162	585	495	113	1 617	240
Surveying and mapping technicians	1 533	575	—	—	—	—	119	81	41	28	655	389
Science technicians	9 356	2 820	41	16	138	20	7 089	2 015	90	43	224	90
Biological technicians	1 763	468	2	2	92	—	1 493	423	6	6	44	12
Chemical technicians	3 022	848	8	8	39	13	2 616	697	30	13	69	25
Science technicians, n.e.c.	4 571	1 504	31	6	7	7	2 980	895	54	24	111	53
Technicians, except health, engineering, and science	102 781	29 090	1 105	517	440	75	20 725	5 351	1 062	543	7 932	3 375
Airplane pilots and navigators	679	18	100	13	21	—	87	—	—	—	49	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	2 901	1 218	108	48	22	—	29	5	6	6	40	20
Computer programmers	63 882	17 889	305	151	64	12	4 825	1 533	521	194	3 229	1 112
Tool programmers, numerical control	556	230	—	—	—	—	56	27	6	6	50	6
Legal assistants	1 478	839	27	20	24	11	145	67	86	43	145	75
Technicians, n.e.c.	33 285	8 896	565	285	309	52	15 583	3 719	443	294	4 419	2 162
Sales occupations	223 695	79 503	40 819	14 755	7 713	1 261	2 786	792	5 097	3 022	18 780	5 824
Supervisors and proprietors, sales occupations	28 601	3 749	593	99	1 217	58	303	52	707	407	887	246
Solely self-employed	23 715	3 185	466	77	1 094	56	770	52	670	397	771	213
Self-employed	4 886	564	127	22	123	2	—	—	37	10	116	33
Sales representatives, finance and business services	139 887	44 030	38 649	13 696	5 702	539	1 798	311	3 765	2 131	14 915	3 848
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	1 850	443	409	179	26	2	26	—	21	6	220	65
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	41 597	15 118	—	—	56	20	43	—	165	103	1 998	985
Sales occupations, other business services	96 440	28 469	38 240	13 517	5 620	517	1 729	291	3 579	2 022	12 697	2 798
Sales representatives, commodities, except retail	1 731	103	133	29	7	—	134	15	21	4	648	26
Sales engineers	1 731	103	133	29	7	—	134	15	21	4	648	26
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	47 649	29 392	1 365	882	776	659	493	371	397	294	1 990	1 458
Sales workers, commodities	6 568	950	16	—	6	—	25	—	7	7	20	—
Sales counter clerks	14 141	8 642	25	7	51	33	6	—	11	11	26	25
Cashiers	13 409	9 353	141	70	84	67	240	238	129	113	284	225
Street and door-to-door sales workers	13 032	10 233	965	697	616	553	202	133	237	156	1 604	1 194
News vendors	499	214	218	108	19	6	—	—	13	7	46	14
Sales related occupations	5 827	2 229	79	49	11	5	58	43	207	186	320	246
Demonstrators, promoters and models, sales	1 710	1 531	71	49	—	—	35	29	197	180	266	228
Auctioneers	3 525	478	8	—	—	—	2	—	4	—	2	—
Sales support occupations, n.e.c.	592	220	—	—	11	5	21	14	6	6	52	18
Administrative support occupations, including clerical	822 446	662 836	52 241	43 458	19 023	16 827	43 727	34 916	89 118	80 175	94 014	79 579
Supervisors, administrative support occupations	46 561	25 744	4 513	2 239	822	467	2 657	1 231	2 531	1 716	6 048	4 188
Supervisors, general office	25 789	17 180	1 742	1 180	617	377	1 596	942	1 903	1 376	4 079	3 139
Supervisors, computer equipment operators	7 165	2 258	72	23	—	—	458	90	116	43	429	195
Supervisors, financial records processing	8 660	4 123	1 860	666	167	86	372	157	391	231	1 103	626
Chief communications operators	471	361	30	30	—	—	28	2	6	6	54	41
Supervisors; distribution, scheduling, and adjusting clerks	4 476	1 822	809	289	38	4	203	40	115	383	60	41
Computer equipment operators	44 745	20 777	799	539	153	75	2 402	1 151	1 233	876	2 688	1 847
Computer operators	42 671	19 652	761	507	134	70	2 309	1 078	1 093	852	2 610	1 380
Peripheral equipment operators	2 074	1 125	38	32	19	5	93	73	30	24	78	62

Detailed Industry and Sex: 1980—Con.

Employed Persons by Detailed Industry For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

United States

Table 4. Detailed Occupation of Employed Persons by Detailed Industry

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Occupation	Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing jobs		Personnel supply services		Business management and consulting services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	250,307	244,000	19,849	19,558	7,976	7,894	18,658	18,442	41,484	40,561	28,501	28,037
Administrative support occupations, including clerical—Con.	192,250	190,039	17,555	17,376	7,433	7,372	16,218	16,067	30,859	30,428	24,258	23,794
Secretaries	12,118	9,661	62	62	22	22	16	16	537	515	186	186
Stenographers	45,939	44,300	2,232	2,120	521	506	2,260	2,190	5,749	5,411	3,913	3,913
Shorthand typists	52,551	47,466	2,398	2,325	895	738	2,576	2,111	5,749	5,411	16,923	16,923
Typists	17,250	14,282	2,251	2,224	75	46	1,271	1,060	730	554	12,516	10,428
Information clerks	—	—	—	—	—	—	—	—	—	—	—	—
Interviewers	842	609	47	34	—	—	52	34	15	12	129	70
Hotel clerks	24,461	23,850	1,851	1,838	413	402	795	742	4,427	4,298	5,812	5,812
Transportation ticket and reservation agents	9,998	8,725	249	229	337	290	458	275	577	547	613	613
Receptionists	29,102	21,807	790	488	211	140	1,837	1,307	4,936	4,134	3,791	3,140
Information clerks, n.e.c.	1,100	667	39	22	—	—	—	—	7	7	94	51
Records processing occupations, except financial	469	323	456	338	87	36	412	214	293	208	414	335
Classified-ad clerks	7,859	4,766	13	13	28	19	145	125	940	715	107	183
Correspondence clerks	2,156	1,706	24	24	76	76	272	244	66	66	124	107
Order clerks	13,457	11,127	628	496	87	49	735	536	3,412	2,945	1,496	1,213
Personal clerks, except payroll and timekeeping	13,457	11,127	628	496	87	49	735	536	3,412	2,945	1,496	1,213
Library clerks	3,438	2,677	150	110	—	—	241	168	187	168	374	1,172
File clerks	103,420	93,253	8,010	7,233	5,154	4,777	3,565	2,946	7,426	6,682	10,026	8,569
Records clerks	89,970	82,098	6,709	6,148	4,614	4,305	2,882	2,499	5,964	5,345	8,540	7,420
Financial records processing occupations	5,163	4,470	240	247	388	354	228	177	889	822	378	333
Bookkeepers, accounting, and auditing clerks	5,528	4,933	159	139	97	97	199	184	288	268	363	306
Payroll and timekeeping clerks	1,774	1,388	63	63	52	52	207	184	159	139	50	93
Billing clerks	7,985	6,844	304	193	—	—	49	36	146	131	64	64
Cost and rate clerks	2,587	1,905	189	141	—	—	—	—	349	246	610	494
Billing, posting, and calculating machine operators	896	637	48	48	—	—	—	—	19	19	19	19
Duplicating, mail, and other office machine operators	4,402	3,078	48	48	12	12	130	103	15	15	279	222
Duplicating machine operators	27,828	26,172	451	428	97	97	319	282	805	749	551	505
Mail preparing and paper handling machine operators	20,542	19,438	451	428	87	87	305	277	799	743	505	454

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States		Business and repair services									
Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Service occupations											
Private household occupations	509 345	159 187									
Protective service occupations	174 382	22 625									
Supervisors, protective service occupations	6 668	712	38								
Supervisors, firefighting and fire prevention occupations	172	14									
Supervisors, police and detectives	6 496	698									
Supervisors, guards	901	28									
Firefighting and fire prevention occupations	489	23									
Firefighting occupations	412	5									
Police and detectives											
Police and detectives, public service											
Sheriffs, bailiffs, and other law enforcement officers											
Correctional institution officers											
Guards	166 813	21 865									
Crossing guards	41	32									
Guards and police, except public service	166 159	21 713	38								
Protective service occupations, n.e.c.	593	149									
Service occupations, except protective and household food preparation and service occupations	334 963	136 562									
Food preparation and service occupations	6 344	3 714									
Supervisors, food preparation and service occupations	559	183									
Bartenders	147	48									
Waiters and waitresses	984	757									
Cooks, except short order	1 891	1 075									
Short-order cooks	60	24									
Food counter, fountain and related occupations	255	148									
Kitchen workers, food preparation	240	159									
Waiters and waitresses, assistants	577	376									
Miscellaneous food preparation occupations	1 622	942									
Health service occupations	19 930	18 417									
Dental assistants	121	51									
Health aides, except nursing	698	530									
Nursing aides, orderlies, and attendants	19 111	17 836									
Cleaning and building service occupations, except household	295 181	104 182									
Supervisors, cleaning and building service workers	15 424	3 844									
Maid and housemen	29 389	21 533									
Janitors and cleaners	219 088	121 347									
Elevator operators	828	108									
Pest control occupations	30 452	1 950									
Personal service occupations	13 506	10 249									
Supervisors, personal service occupations	223	78									
Barbers	225	51									
Hairdressers and cosmetologists	2 300	1 955									
Attendants, amusement and recreation facilities	518	201									
Guides	298	155									
Ushers	692	189									
Public transportation attendants											
Baggage porters and bellhops											
Welfare service aides											
Child care workers, except private household											
Personal service occupations, n.e.c.	8 238	6 908									
Farming, forestry, and fishing occupations	6 188	757									
Farm operators and managers											
Farm occupations, except managerial	94	77									
Related agricultural occupations	5 753	640									
Supervisors, related agricultural occupations	52	22									
Groundskeepers and gardeners, except farm	2 857	269									
Animal caretakers, except farm	2 793	349									
Graders and sorters, agricultural products											
Inspectors, agricultural products											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services											
Total	Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personal supply services		Business management and consulting services		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Female
233	10	—	6	—	—	—	12	—	12	—	12
—	—	—	—	—	—	—	—	—	—	—	—
79	8	—	6	—	—	—	—	—	—	—	6
154	2	—	—	—	—	—	12	—	6	—	6
108	5	—	11	—	—	—	—	—	10	—	—
55	—	—	6	—	—	—	—	—	10	—	—
24	—	—	—	—	—	—	—	—	—	—	—
29	5	—	5	—	—	—	—	—	—	—	—
940	8 957	811	7 836	482	15 860	1 029	1 873	382	4 347	685	—
798 847	785	68	2 769	38	4 658	180	1 701	31	1 901	91	—
22 290	37	13	214	—	284	11	6	—	91	14	—
776 557	13 042	55	2 555	38	4 374	169	364	31	1 610	77	—
544 305	270	2	392	—	652	—	115	—	131	—	—
362 476	203	—	234	—	442	—	81	—	75	—	—
29 575	18	—	49	—	37	—	9	—	12	—	—
1 007	31	—	23	—	30	—	—	—	15	—	—
8 837	—	—	13	—	19	—	—	—	2	—	—
128 881	11	2	33	—	27	—	14	—	14	—	—
7 594	7	—	40	—	80	—	5	—	13	—	—
5 648	—	—	—	—	5	—	6	—	—	—	—
15 288	133	7	569	—	763	26	45	—	240	7	—
97 878	8	—	37	—	97	2	9	—	18	—	—
—	134	33	181	6	615	51	80	11	492	38	—
46 674	111	20	81	6	298	18	22	—	135	—	—
16 838	15	13	14	—	207	20	28	5	213	25	—
24 944	—	—	49	—	34	—	14	—	35	—	—
1 125	5	—	—	—	—	—	8	—	6	—	—
1 410	—	—	30	—	24	—	8	—	68	8	—
8 087	3	—	7	—	52	13	—	—	18	—	—
24 738	—	—	179	8	192	—	9	—	72	—	—
93 376	203	13	1 175	24	2 115	90	106	7	657	32	—
16 492	11	—	—	—	639	49	5	—	14	—	—
12 146	—	—	—	—	24	—	—	—	15	—	—
9 968	12	6	8	—	46	—	—	—	199	5	—
1 001	6	—	—	—	13	—	—	—	6	—	—
352	6	—	44	—	7	—	—	—	5	—	—
1 429	31	—	60	—	230	—	22	—	29	—	—
35 377	51	—	467	10	574	25	46	—	141	—	—
16 611	117	7	591	14	582	16	33	—	248	16	—
41 925	6 038	201	3 079	118	3 420	116	774	27	659	31	—
2 371	286	10	330	27	294	8	36	7	163	—	—
38	—	—	—	—	11	—	—	—	—	—	—
95	8	—	5	—	8	—	2	—	7	—	—
422	7	—	14	—	94	—	—	—	12	—	—
75	60	10	—	—	—	—	—	—	—	—	—
104	211	—	311	—	13	—	—	—	—	—	—
1 637	55	—	—	—	168	8	34	7	144	—	—
39 554	5 752	191	2 749	91	3 126	108	738	20	496	31	—
92	—	—	52	6	37	—	12	—	7	—	—
360	—	—	16	—	—	—	4	—	—	—	—
5 415	459	19	897	19	502	19	215	11	35	—	—
143	—	—	30	—	—	—	—	—	92	—	—
12 453	515	23	336	30	1 439	41	86	—	115	—	—
289	—	—	—	—	38	—	3	—	14	—	—
5 987	415	33	623	32	201	—	245	9	145	—	—
1 591	1 388	49	2	—	—	—	—	—	15	—	—

United States

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.	
Supervisors, forestry and logging workers—	
Forestry workers, except logging	
Timber cutting and logging occupations	
Fishers, hunters, and trappers	
Captains and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations—	
Mechanics and repairers—	
Supervisors, mechanics and repairers	
Mechanics and repairers, except supervisors	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationery engine mechanics	
Auto mechanics	
Small engine repairers	
Aviation mechanics	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairers	
Equipment	
Data processing equipment repairers	
Household appliance and power tool repairers	
Telephone line installers and repairers	
Telephone installers and repairers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Camera, watch, and musical instrument repairers	
Locksmiths and safe repairers	
Office machine repairers	
Mechanical controls and valve repairers	
Beverage installers and repairers	
Milkwrights	
Specified mechanics and repairers, n.e.c.	
Not specified mechanics and repairers	
Construction trades	
Supervisors, construction occupations	
Supervisors, brickmasons, stonemasons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, n.e.c.	
Construction trades, except supervisors	
Brickmasons and stonemasons	
Tile setters, hard and soft	
Carpenters	
Carpet installers	
Drywall installers	
Electricians	
Electrical power installers and repairers	
Construction and maintenance	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see appendix A.]

Business and repair services

United States	Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Construction trades—Con.												
Construction trades, except supervisors—Con.												
Plumbers, pipefitters, and steamfitters	47	57	39	—	415	—	700	8	68	—	51	—
Concrete and masonry finishers	5 680	—	—	—	16	—	6	—	6	—	—	—
Glaziers	73	35	—	—	30	—	10	7	11	—	4	—
Insulation workers	223	20	8	—	—	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	11	—	—	—	10	—	—	—	—	—	—	—
Roofters	113	—	—	—	—	—	—	—	—	—	—	—
Sheetmetal duct installers	186	5	—	—	12	—	24	5	—	—	—	—
Structural metal workers	260	—	20	—	—	—	32	—	—	—	—	—
Drillers, earth	171	5	—	—	—	—	93	—	—	—	—	—
Construction trades, n.e.c.	5 261	160	2 908	67	229	4	4	5	48	—	19	—
Extrusive occupations	403	43	9	9	10	9	9	5	15	—	14	—
Supervisors, extractive occupations	133	14	9	—	—	—	13	—	—	—	8	—
Drillers, oil well	74	17	—	—	—	—	6	—	—	—	—	—
Explosives workers	87	—	—	—	—	—	—	—	—	—	—	—
Mining machine operators	43	7	—	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	66	5	—	—	—	—	16	5	—	—	—	—
Precision production occupations	99 089	18 210	2 125	533	1 978	317	7 728	728	714	324	1 973	563
Supervisors, production occupations	27 207	5 480	1 407	384	1 341	230	2 493	273	359	160	1 123	454
Precision metalworking occupations	15 459	610	510	73	113	—	2 630	17	120	9	304	24
Tool and die makers	1 566	29	19	—	2	—	38	—	13	—	105	6
Precision assemblers, metal	184	30	—	—	—	—	—	—	—	—	—	—
Machinists	8 352	217	70	9	63	—	1 921	17	83	4	138	7
Boilermakers	2 030	22	—	—	35	—	53	—	—	—	—	—
Precision grinders, filers, and tool sharpeners	251	26	—	—	—	—	20	—	—	—	—	—
Patternmakers and model makers, metal	84	29	—	—	—	—	103	—	—	—	—	—
Lay-out workers	135	29	27	7	—	—	14	—	—	—	—	—
Precious stones and metals workers (jewelers)	645	35	—	—	—	—	38	—	—	—	—	—
Engravers, metal	321	139	96	51	—	—	7	—	—	—	—	—
Shear metal workers	1 113	14	272	—	13	—	154	—	17	—	2	—
Miscellaneous precision metal workers	14 377	1 860	25	—	18	—	9	—	—	—	—	—
Precision woodworking occupations	59	14	14	—	2	—	20	—	7	—	15	—
Portemakers and model makers, wood	6 421	1 671	6	—	2	—	15	—	—	—	15	—
Cabinet makers and bench carpenters	7 844	1 171	—	—	16	—	—	—	—	—	—	—
Furniture and wood finishers	53	4	5	—	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	31 801	8 677	30	30	34	34	50	35	47	29	52	39
Precision textile, apparel, and furnishings machine workers	2 230	2 005	30	30	31	31	35	35	30	15	39	39
Dressmakers	101	20	—	—	—	—	13	—	—	—	—	—
Tailors	29 157	6 523	—	—	3	—	—	—	—	—	—	—
Upholsterers	175	53	—	—	—	—	—	—	—	—	—	—
Shoe repairers	103	56	—	—	—	—	2	—	11	8	—	—
Apparel and fabric patternmakers	35	20	—	—	—	—	—	—	6	6	—	—
Miscellaneous precision apparel and fabric workers	2 011	711	120	38	—	—	—	—	—	—	—	—
Precision workers, assorted materials	258	16	35	—	—	—	515	134	86	67	83	12
Head molders and shapers, except jewelers	166	64	56	25	—	—	108	6	—	—	3	—
Patternmakers, lay-out workers, and cutters	207	33	—	—	—	—	11	—	—	—	—	—
Critical goods workers	113	24	—	—	—	—	86	6	—	—	17	—
Dental laboratory and medical appliance technicians	127	67	18	13	—	—	33	17	—	—	14	—
Biological technicians	854	471	—	—	—	—	202	88	22	16	30	6
Electrical and electronic equipment assemblers	286	36	—	—	—	—	42	—	64	51	6	—
Miscellaneous precision workers, n.e.c.	794	170	10	8	15	7	86	38	—	—	13	—
Precision food production occupations	307	34	10	8	8	—	35	—	15	5	13	—
Butchers and meat cutters	107	52	—	—	7	—	43	32	10	—	—	—
Bakers	380	84	—	—	—	—	8	—	—	—	—	—
Food batchmakers	3 627	549	—	—	11	5	918	217	—	—	—	—
Precision inspectors, testers, and related workers	3 578	539	—	—	—	—	918	217	13	13	35	—
Inspectors, testers, and graders	29	10	—	—	—	—	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States		Business and repair services									
Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
3 813	153	23	—	446	33	826	14	67	21	348	21
198	24	—	—	26	—	35	—	15	10	6	—
170	113	—	—	—	—	33	6	52	11	—	21
3 278	116	23	—	397	33	651	—	—	—	336	—
298	16	—	—	23	—	107	—	—	—	—	—
432 803	73 718	13 835	4 106	11 239	1 996	12 173	2 685	13 832	2 935	5 106	2 049
216 912	46 568	9 917	3 179	2 456	446	7 772	1 804	3 333	1 401	2 782	1 426
112 904	35 109	5 472	2 471	1 762	369	3 708	1 902	1 794	708	1 885	942
8 105	865	127	68	93	12	364	16	—	71	53	23
188	—	—	—	—	—	11	—	15	11	16	4
860	98	32	20	—	—	145	—	—	—	9	9
116	14	—	—	—	—	30	—	—	—	9	9
579	138	56	30	14	6	34	7	60	20	1	—
46	27	10	—	—	—	9	—	46	18	13	—
271	64	11	8	16	—	65	9	—	—	—	—
5 466	364	18	—	63	6	56	—	57	15	—	—
161	21	—	—	—	—	14	—	9	—	—	—
357	139	—	—	—	—	—	—	7	—	5	—
399	99	51	19	14	14	20	—	11	7	2	2
1 311	257	132	16	11	—	119	13	45	13	46	—
833	180	118	16	11	—	80	6	24	13	32	—
261	61	8	—	—	—	34	7	8	—	2	—
133	—	8	—	—	—	5	—	—	—	12	—
84	16	—	—	—	—	—	—	13	—	—	—
576	90	49	7	9	9	12	12	31	7	1	—
5	50	18	—	9	—	—	—	24	7	—	—
224	32	7	—	—	—	9	9	—	—	—	—
32	7	—	—	—	—	—	—	7	—	—	—
297	36	24	7	—	—	3	3	—	—	1	—
8 629	3 854	2 133	998	28	1	568	219	186	90	436	164
5 102	1 608	942	249	23	—	428	129	96	27	313	73
957	514	92	19	5	—	28	16	10	8	83	8
2 191	1 480	1 054	690	—	—	66	50	57	40	23	17
379	252	45	40	1	—	46	23	24	23	32	31
3 681	2 244	135	96	568	171	59	16	115	56	6	—
78	12	11	11	—	—	—	—	—	—	—	—
42	27	—	—	—	—	5	5	7	7	4	—
122	36	—	—	6	6	15	3	6	—	20	14
1 930	1 614	53	47	26	21	—	—	16	6	1	—
52	26	9	—	54	—	—	—	—	—	—	—
198	109	42	28	75	84	39	8	81	43	22	9
953	301	20	10	450	6	—	—	—	—	13	8
306	119	10	10	12	6	—	—	—	—	—	—
90 203	27 700	3 045	1 267	1 038	162	2 566	626	1 145	471	1 281	722
412	161	75	38	6	—	13	21	17	11	5	—
1 166	650	—	—	—	—	33	9	47	17	—	—
59	—	—	—	—	—	47	—	7	—	—	—
587	49	14	8	30	7	138	30	—	—	55	15
357	57	7	—	—	—	—	—	—	—	6	—
187	94	5	5	74	—	102	8	40	7	17	13
27 213	693	178	5	—	—	—	—	—	—	2	—
76	—	—	—	14	—	—	—	4	4	—	—
62	18	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.	
Precision production occupations—Con.	
Plant and system operators	
Water and sewage treatment plant operators	
Power plant operators	
Stationary engineers	
Miscellaneous plant and system operators	
Operators, fabricators, and laborers	
Machine operators, assemblers, and inspectors	
Machine operators and tenders, except precision	
Machine operators and plastic working machine operators	
Machine operators and plastic processing machine operators	
Lathe and turning machine operators	
Lathe and turning machine operators	
Milling and planing machine operators	
Punching and stamping press machine operators	
Rolling machine operators	
Drilling and boring machine operators	
Grinding, abrading, buffing, and polishing machine operators	
Forging machine operators	
Numerical control machine operators	
Miscellaneous metal, plastic, stone, and glass working machine operators	
Fabricating machine operators, n.e.c.	
Metal and plastic processing machine operators	
Molding and casting machine operators	
Metal plating machine operators	
Heat treating equipment operators	
Miscellaneous metal and plastic processing machine operators	
Woodworking machine operators	
Wood lathe, routing, and planing machine operators	
Sawing machine operators	
Shaping and joining machine operators	
Nailing and latching machine operators	
Miscellaneous woodworking machine operators	
Printing machine operators	
Printing machine operators	
Photographers and lithographers	
Typesetters and linotype machine operators	
Miscellaneous printing machine operators	
Textile, apparel, and finishing machine operators	
Knitting and twisting machine operators	
Knitting, looping, taping, and weaving machine operators	
Textile cutting machine operators	
Textile sewing machine operators	
Shoe machine operators	
Pressing machine operators	
Laundering and dry cleaning machine operators	
Miscellaneous textile machine operators	
Machine operators, assorted materials	
Cementing and gluing machine operators	
Packaging and filling machine operators	
Extruding and forming machine operators	
Mixing and blending machine operators	
Separating, filtering, and clarifying machine operators	
Compressing and compacting machine operators	
Painting and paint spraying machine operators	
Roasting and baking machine operators, food	
Washing, cleaning, and picking machine operators	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Business and repair services									
	Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators and tenders, except precision—Con.										
Machine operators, assorted materials—Con.										
Folding machine operators	156	89	2	2	19	2	12	—	2	2
Furnace, kiln, and oven operators	1 030	69	—	—	168	—	—	—	—	—
Cutting and grinding machine operators	2 113	20	—	—	24	—	—	—	—	—
Slicing and cutting machine operators	2 415	799	—	—	36	—	—	—	—	—
Motion picture projectionists	102	42	—	—	—	—	—	—	—	—
Photographic process machine operators	29 730	16 489	47	34	314	105	105	85	315	231
Miscellaneous machine operators, n.e.c.	11 729	3 409	198	70	625	279	700	270	404	256
Machine operators, not specified	14 609	4 987	638	210	1 016	279	700	270	419	197
Fabricators, assemblers, and hand working occupations										
Welders and cutters	95 100	8 444	260	40	1 958	527	1 380	619	632	355
Solders and brazers	65 763	1 168	143	—	730	42	131	18	117	12
Assemblers	14 771	5 348	87	33	1 110	459	14	4	4	4
Hand cutting and trimming occupations	65	24	—	—	—	—	—	—	—	—
Hand molding, casting, and forming occupations	12 891	1 232	19	—	8	—	—	—	—	—
Hand painting, coating, and decorating occupations	515	132	4	—	—	—	—	—	—	—
Hand engraving and polishing occupations	112	8	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	538	297	4	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	8 908	3 015	162	162	2 106	375	226	94	265	129
Production inspectors, checkers, and examiners	5 960	1 583	40	37	1 428	116	117	41	203	89
Production testers	385	101	12	—	18	8	—	—	—	—
Production samplers and weighers	1 678	1 106	137	—	68	36	96	46	42	38
Graders and sorters, except agricultural										
Transportation and material moving occupations										
Motor vehicle operators	94 403	8 645	2 117	102	2 158	303	2 512	307	1 050	117
Supervisors, motor vehicle operators	85 068	8 106	1 802	94	1 594	230	2 108	297	873	103
Truck drivers, heavy	1 737	191	66	—	29	—	—	—	—	—
Truck drivers, light	34 475	1 219	952	53	571	23	918	58	287	5
Driver-sales workers	18 909	2 747	482	15	457	75	169	19	331	64
Bus drivers	1 401	270	26	5	22	8	48	34	55	7
Taxicab drivers and chauffeurs	9 887	1 870	122	19	396	111	941	180	132	15
Parking lot attendants	16 168	1 108	24	2	7	6	6	6	23	6
Motor transportation occupations, n.e.c.										
Rail transportation occupations										
Railroad conductors and yardmasters	15	9	—	—	13	—	—	—	—	—
Locomotive operating occupations	100	5	—	—	6	—	—	—	—	—
Railroad brake, signal, and switch operators	27	5	—	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	5	—	—	—	—	—	—	—	—	—
Water transportation occupations										
Ship captains and mates, except fishing boats	373	55	7	—	51	—	23	—	16	—
Salors and deckhands	208	13	—	—	30	—	13	—	7	—
Marine engineers	92	18	—	—	16	—	10	—	—	—
Bridge, lock, and lighthouse tenders	49	—	—	—	5	—	—	—	—	—
Material moving equipment operators										
Supervisors, material moving equipment operators	8 815	466	308	8	500	73	370	2	156	5
Operating engineers	230	8	20	—	29	—	38	—	17	—
Longshore equipment operators	1 003	13	108	—	99	—	—	—	12	—
Held and winch operators	—	—	—	—	—	—	—	—	—	—
Crane and tower operators	62	—	18	—	—	—	16	—	—	—
Excavating and related machine operators	2 453	20	30	—	28	—	38	—	13	—
Grader, dozer, and scraper operators	772	18	—	—	26	—	38	—	23	—
Industrial truck and tractor equipment operators	2 207	57	95	—	24	—	—	—	40	—
Miscellaneous material moving equipment operators	1 628	332	37	8	220	57	98	2	31	5

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Business and repair services									
Total	Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services
	Total	Female	Total	Female	Total	Female	Total	Female	
121 488	2 451	624	6 666	1 448	2 243	578	7 987	1 207	1 274
18 505									506
121 488	2 451	624	6 666	1 448	2 243	578	7 987	1 207	1 274
551	22	7	73	4	51	5	-	-	13
7 153	6	-	14	-	12	-	8	-	18
706	49	-	40	-	39	-	58	-	5
612	41	-	40	-	39	-	53	-	18
94	8	-	-	-	-	-	5	-	-
-	-	-	-	-	-	-	-	-	-
1 896	234	9	202	19	109	-	394	14	72
7 089	100	2	95	16	188	82	51	19	6
6 287	241	33	281	6	151	13	1 441	35	232
326	-	-	94	-	-	-	32	2	-
11	-	-	-	-	-	-	-	-	-
1 464	84	26	45	-	46	6	179	14	91
348	21	7	14	6	9	-	17	10	18
4 138	136	-	128	-	96	7	1 213	19	123
12 512	249	49	67	-	13	7	22	12	8
36 302	13	187	644	113	115	33	44	370	12
9 028	291	332	75	18	315	152	613	152	192
39 764	1 246	332	5 175	1 272	1 250	286	5 356	752	641

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see introduction. For meaning of symbols, see appendix A)

Business and repair services—Con.																				
Computer and data processing services			Detective and protective services			Business services, n.e.c.			Automotive services, except repair			Automotive repair shops			Electrical repair shops			Miscellaneous repair services		
Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
360 514	142 857	47 545	241 467	142 857	47 545	756 000	376 838	52 084	687 169	317 189	17 595	138 392	50 657	17 595	317 189	42 728	42 728	317 189	42 728	42 728
119 844	27 452	3 749	19 799	27 452	3 749	209 819	76 150	7 191	37 299	20 323	1 437	9 042	3 241	1 437	20 323	3 623	3 623	20 323	3 623	3 623
59 051	14 467	2 917	15 786	14 467	2 917	108 853	34 904	6 957	36 556	18 467	1 370	8 095	3 149	1 370	18 467	3 083	3 083	18 467	3 083	3 083
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	527	73	12	527	73	9	1 282	210	145	105	49	105	42	49	225	56	56	225	56	56
2 107	566	164	556	566	164	2 021	768	173	717	276	27	108	43	27	276	41	41	276	41	41
1 771	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
315	111	5	49	111	5	397	151	6	28	41	6	41	28	6	65	7	7	65	7	7
4 669	599	89	1 210	599	89	7 422	1 436	237	982	335	28	335	64	28	900	86	86	900	86	86
80	28	7	12	28	7	116	64	—	29	2	2	2	5	2	14	—	—	14	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125	44	5	25	44	5	488	118	130	27	20	—	20	—	—	28	—	—	28	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
39 292	8 364	1 112	11 112	8 364	1 112	73 894	22 796	11	35	6 829	—	6 829	2 598	—	39	16	—	39	16	16
37 948	8 113	1 071	10 711	8 113	1 071	61 499	19 078	5 127	32 868	15 628	1 055	15 628	2 598	1 055	15 628	2 497	—	15 628	2 497	2 497
1 344	251	941	941	251	941	12 395	3 718	4 698	20 758	9 594	725	9 594	1 777	725	9 594	1 559	—	9 594	1 559	1 559
—	—	—	—	—	—	—	—	—	12 110	6 034	—	12 110	821	—	6 034	—	—	6 034	—	—
10 686	4 228	2 454	2 454	4 228	2 454	20 849	8 289	1 074	1 720	655	203	655	397	203	1 292	380	—	1 292	380	380
4 742	2 092	770	770	2 092	770	5 912	2 855	694	593	196	84	196	286	84	453	198	—	453	198	198
22	12	—	—	12	—	36	29	—	6	—	—	—	6	—	—	—	—	—	—	—
800	284	88	88	284	88	1 793	785	55	26	19	14	19	6	14	30	12	—	30	12	12
1 798	276	185	185	276	185	2 252	783	13	92	36	6	36	74	6	25	—	—	25	—	—
2 644	1 303	1 095	1 095	1 303	1 095	3 848	1 597	190	488	192	49	192	—	49	327	76	—	327	76	76
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
465	177	144	144	177	144	2 652	1 077	95	233	195	50	195	22	50	381	71	—	381	71	71
11	—	24	24	11	24	1 212	548	13	—	—	—	—	—	—	3	—	—	3	—	—
9	—	8	8	9	8	368	7	—	—	—	—	—	—	—	5	—	—	5	—	—
76	35	99	99	76	35	2 500	505	6	279	12	—	12	6	—	42	—	—	42	—	—
119	49	41	41	119	49	276	103	8	3	5	—	5	3	—	26	—	—	26	—	—
60 793	12 985	4 013	4 013	12 985	4 013	100 966	41 246	234	743	947	67	947	92	67	1 856	540	—	1 856	540	540
8 990	396	967	967	8 990	396	4 918	408	20	234	764	—	764	21	—	823	8	—	823	8	8
21	6	46	46	21	6	4 307	49	5	22	11	—	11	21	—	11	—	—	11	—	—
8 945	390	921	921	8 945	390	4 525	358	15	212	764	—	764	21	—	799	8	—	799	8	8
178	6	7	7	178	6	79	7	—	—	23	—	23	—	—	14	—	—	14	—	—
9	—	—	—	9	—	13	—	—	—	—	—	—	—	—	44	—	—	44	—	—
4	—	—	—	4	—	9	—	—	—	—	—	—	—	—	5	—	—	5	—	—
28	7	26	26	28	7	22	10	—	—	—	—	—	—	—	7	—	—	7	—	—
74	6	—	—	74	6	88	21	—	—	8	—	8	—	—	—	—	—	—	—	—
54	11	33	33	54	11	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—
184	18	—	—	184	18	272	—	—	23	39	—	39	—	—	—	—	—	—	—	—
16	—	—	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2 645	114	211	211	2 645	114	1 367	117	—	47	465	—	465	—	—	99	—	—	99	—	—
629	26	105	105	629	26	558	135	15	26	81	—	81	—	—	45	—	—	45	—	—
411	—	—	—	411	—	356	30	—	69	387	—	387	—	—	387	—	—	387	—	—
18	—	8	8	18	—	41	—	—	—	—	—	—	—	—	17	—	—	17	—	—
4 693	156	442	442	4 693	156	1 699	59	—	46	154	—	154	21	—	122	—	—	122	—	—
24	6	—	—	24	6	86	1	—	—	13	—	13	—	—	—	—	—	—	—	—
40 787	8 122	609	609	40 787	8 122	2 686	637	25	8	40	9	40	—	9	42	11	—	42	11	11
37 912	7 340	428	428	37 912	7 340	1 576	317	25	8	21	—	21	—	—	44	—	—	44	—	—
2 371	576	151	151	2 371	576	791	198	—	48	19	—	19	—	—	18	—	—	18	—	—
44	—	—	—	44	—	49	13	—	—	—	—	—	—	—	—	—	—	—	—	—
325	157	19	19	325	157	230	104	—	—	—	—	—	—	—	—	—	—	—	—	—
135	22	11	11	135	22	40	5	—	—	—	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over
 Managerial and professional specialty occupations
 Executive, administrative, and managerial occupations
 Legislators, chief executives, and general administrators
 public administration
 Administrators and officials, public administration
 Federal
 State
 Local
 Administrators, protective services
 Financial managers
 Personnel and labor relations managers
 Purchasing managers
 Managers, marketing, advertising, and public relations
 Administrators, education and related fields
 Managers, medicine and health
 Managers, properties and real estate
 Postmasters and mail superintendents
 Federal directors
 Managers and administrators, n.e.c.
 Self-employed
 Management related occupations
 Accountants and auditors
 Underwriters
 Other financial officers
 Management analysts
 Personnel, training, and labor relations specialists
 Purchasing agents and buyers, farm products
 Buyers, wholesale and retail trade except farm products
 Businesses and promotion agents
 Business and promotion agents, n.e.c.
 Construction inspectors
 Inspectors and inspectors, except construction
 Management related occupations, n.e.c.
 Professional specialty occupations
 Engineers, architects, and surveyors
 Architects
 Engineers
 Aerospace engineers
 Metallurgical and materials engineers
 Mining engineers
 Petroleum engineers
 Chemical engineers
 Nuclear engineers
 Civil engineers
 Agricultural engineers
 Electrical and electronic engineers
 Industrial engineers
 Mechanical engineers
 Marine engineers and naval architects
 Engineers, n.e.c.
 Surveyors and mapping scientists
 Mathematical and computer scientists
 Computer systems analysts and scientists
 Operations and systems researchers and analysts
 Actuaries
 Statisticians
 Mathematical scientists, n.e.c.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Business and repair services—Con.									
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Monetary and professional specialty occupations—Con.										
Professional specialty occupations—Con.										
Natural scientists	702	137	64	13	998	209	18	6	14	17
Physicists and astronomers	170	6	14	6	167	—	—	—	—	—
Chemists, except biochemists	210	43	21	7	423	112	—	—	14	3
Atmospheric and space scientists	178	31	7	—	36	7	—	—	—	—
Geologists and geodesists	197	36	20	—	88	27	—	—	—	—
Physical scientists, n.e.c.	90	7	—	—	46	7	—	—	—	—
Agricultural and food scientists	12	—	—	—	54	8	—	—	—	—
Biological and life scientists	27	14	—	—	91	20	—	—	—	—
Forestry and conservation scientists	6	—	—	—	48	6	—	—	—	—
Medical scientists	12	—	—	—	45	28	—	—	—	—
Health diagnosing occupations	65	19	12	—	230	76	—	—	—	—
Physicians	54	19	12	—	147	40	—	—	—	—
Dentists	6	—	—	—	24	17	—	—	—	—
Veterinarians	—	—	—	—	12	—	—	—	—	—
Optometrists	5	—	—	—	19	5	—	—	—	—
Podiatrists	—	—	—	—	28	14	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	112	103	39	21	681	460	10	4	6	27
Registered nurses	70	70	27	21	337	337	6	6	6	21
Pharmacists	11	11	—	—	137	50	—	—	—	—
Dietitians	1	1	—	—	89	37	4	4	—	6
Therapists	28	21	6	—	66	37	—	—	—	—
Physicians' assistants	2	—	—	—	6	—	—	—	—	—
Teachers, postsecondary	100	41	12	19	166	45	13	12	43	17
Teachers, except postsecondary	1	461	59	—	677	677	50	—	60	232
Teachers, kindergarten and kindergarten	—	—	—	—	12	12	—	—	13	8
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	—	—	—	—	—	—	—	—	—	—
Counselors, educational and vocational	1	461	59	—	44	15	—	—	—	—
Librarians, archivists, and curators	110	24	22	3	106	650	50	12	40	136
Librarians	668	518	38	26	202	258	—	—	9	51
Librarians	638	510	38	26	344	208	—	—	25	41
Archivists and curators	30	8	—	—	240	50	—	—	25	—
Social scientists and urban planners	2 388	790	145	39	1 393	511	135	25	6	36
Economists	2 303	728	122	39	1 146	427	135	25	6	21
Psychologists	25	11	11	—	77	28	—	—	6	15
Sociologists	5	—	—	—	14	—	—	—	—	—
Social scientists, n.e.c.	43	5	12	—	36	36	—	—	—	—
Urban planners	12	6	—	—	34	20	—	—	—	—
Social, recreation, and religious workers	79	59	257	111	714	380	21	6	—	13
Social workers	79	59	233	111	622	327	6	6	—	11
Recreation workers	—	—	24	—	60	43	9	—	—	2
Clergy	—	—	—	—	—	—	—	—	—	—
Religious workers, n.e.c.	—	—	—	—	32	10	—	—	—	—
Lawyers and judges	248	43	632	101	505	78	79	17	86	—
Lawyers	248	43	632	101	505	78	79	17	86	—
Judges	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	5 284	2 312	1 157	364	86 990	37 401	319	125	277	568
Authors	79	13	14	9	306	134	—	—	—	18
Technical writers	1 640	852	49	19	622	272	30	7	110	173
Designers	1 571	308	299	38	18 692	30	5	—	24	26
Musicians and composers	—	—	16	—	32 731	292	—	—	—	8
Actors and directors	—	—	10	10	1 486	77	—	—	8	176
Painters, sculptors, craft-artists, and artist printmakers	110	237	159	32	203	9 013	28	20	30	189
Photographers	459	16	88	23	19 355	4 428	7	—	3	6
Dancers	69	12	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	23	482	88	22	1 192	563	21	15	9	54
Editors and reporters	673	392	150	63	2 483	1 165	224	83	32	11
Public relations specialists	653	—	284	148	2 087	46	—	—	79	61
	—	—	—	—	79	34	—	—	14	—
	—	—	—	—	716	—	—	—	—	—

1980—Con.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: For definitions of terms, see appendix A)

[Data are estimates based on a sample; see introduction. For meaning of symbols, see appendix A)]

Business and repair services—Con.

United States

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations	208 120	110 077	35 419	19 964	368 459	250 341	55 776	36 092	56 750	37 144	20 826	13 101	34 565	20 411
Technicians and related support occupations	64 212	16 180	4 471	1 325	30 098	6 860	856	377	574	65	2 705	116	4 176	527
Health technicians and technicians	87	33	10	5	82	40	12	12	2	—	9	—	12	13
Health laboratory technicians and technicians	4	17	5	5	—	11	—	—	—	—	—	—	—	—
Dental hygienists	17	—	—	—	9	—	—	—	—	—	—	—	—	—
Health record technicians and technicians	39	27	14	14	74	62	12	12	2	—	—	—	—	—
Radiologic technicians	80	28	17	11	65	36	—	—	—	—	—	—	—	—
Licensed practical nurses	8 677	1 091	1 332	103	20 298	3 937	89	—	102	6	1 648	43	1 111	41
Health technicians and technicians, n.e.c.	7 268	753	701	31	3 903	278	40	—	17	—	1 522	43	779	19
Engineering and related technicians and technicians	20	—	4	—	2 710	58	14	—	14	—	6	—	26	6
Electrical and electronic technicians	38	118	104	29	13 272	2 972	10	—	66	—	73	—	134	14
Mechanical engineering technicians	512	211	323	43	13 283	2 972	10	—	56	—	47	—	158	2
Industrial engineering technicians	811	9	—	—	934	307	27	15	42	12	46	—	43	7
Engineering technicians, n.e.c.	28	—	—	—	92	20	2	2	17	5	—	—	—	—
Drafting occupations	631	263	51	32	184	64	7	6	25	7	46	—	2 974	466
Surveying and mapping technicians	24	3	8	—	658	2 467	25	300	269	—	1 002	73	13	—
Science technicians	54 677	14 721	3 242	1 155	8 625	2 467	25	—	—	—	—	—	—	—
Biological technicians	109	49	1 511	730	886	912	91	—	12	—	—	—	—	—
Chemical technicians	51 113	13 710	477	159	2 889	912	326	63	35	5	—	—	—	—
Science technicians, except health, engineering, and science	373	154	6	—	36	24	5	148	44	22	—	—	—	—
Airplane pilots and navigators	2 888	721	83	47	3 935	965	79	21	173	17	861	13	2 886	428
Broadcast equipment operators	2 044	2 581	6 348	828	73 867	32 860	26 854	13 408	15 231	1 577	4 131	1 026	8 449	1 569
Computer programmers	2 011	185	1 999	41	7 822	1 963	2 539	240	5 500	194	1 842	80	2 082	184
Tool programmers, numerical control	2 044	180	1 999	25	6 447	1 707	2 215	201	5 640	139	1 493	59	1 407	79
Legal assistants	34	5	66	16	1 175	256	324	39	1 860	55	349	21	675	105
Technicians, n.e.c.	11 082	2 167	4 630	501	46 092	17 886	3 928	1 144	3 004	390	1 354	467	5 018	950
Sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors and proprietors, sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, manufacturing, and	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Business sales occupations	23	5	20	—	920	139	99	31	66	5	20	—	—	—
Sciences and financial services sales occupations	81	41	67	—	914	425	20	—	7	7	—	—	—	—
Advertising and related sales occupations	10 978	2 121	4 543	501	44 258	17 322	3 807	1 113	2 931	378	1 334	456	5 012	950
Sales occupations, other business services	139	17	83	—	330	12	6	—	19	—	65	—	126	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wholesale	311	145	555	279	14 492	11 399	20 367	12 018	4 701	993	850	499	1 212	435
Sales workers, retail and personal services	31	6	—	—	247	46	1 051	136	3 737	337	537	192	846	226
Sales workers, commodities	27	15	59	18	1 620	738	12 002	7 627	3 155	112	537	57	102	35
Sales counter clerks	98	64	350	203	3 754	3 420	7 233	4 220	789	524	112	103	175	106
Cashiers	112	61	119	56	8 640	7 136	23	10	20	20	3	3	86	68
Street and door-to-door sales workers	19	7	19	9	151	59	21	10	7	—	—	—	—	—
News vendors	94	67	15	7	4 991	1 400	14	6	6	—	—	—	—	—
Sales related occupations	31	31	7	7	1 068	987	8	—	7	—	—	—	—	—
Demonstrators, promoters and models, sales	—	—	—	—	3 498	478	6	—	—	—	—	—	—	—
Auctioneers	63	36	2	—	425	135	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	130 288	91 316	24 600	17 811	264 494	210 621	28 066	22 357	40 945	35 502	13 990	11 959	21 940	18 315
Supervisors, administrative support occupations	12 737	5 828	1 504	418	12 431	7 582	1 571	879	387	381	346	203	332	332
Supervisors, general office	5 625	3 340	970	441	6 907	4 864	1 039	612	508	332	267	174	536	27
Supervisors, general equipment operators	5 941	3 737	72	126	2 929	1 424	373	188	82	49	61	29	86	27
Supervisors, financial records processing	22	35	295	22	2 290	250	127	4	2	—	—	—	—	—
Supervisors, financial records processing	568	228	28	28	1 902	889	127	390	71	193	98	88	116	33
Chief commissioners, scheduling, and adjusting clerks	20 650	12 195	782	395	5 100	3 362	571	348	227	191	98	88	110	65
Computer equipment operators	29 186	11 536	378	378	4 818	3 139	223	22	14	2	2	—	6	6
Computer operators	1	659	28	17	282	223	—	—	—	—	—	—	—	—
Peripherial equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Business and repair services—Con.									
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.										
Administrative support occupations, including dental—Con.										
Secretaries, stenographers, and typists	18 314	18 112	8 048	7 854	78 160	74 593	6 244	6 176	11 720	11 585
Secretaries	15 640	15 484	7 015	6 840	45 749	45 177	5 698	5 670	11 325	11 251
Stenographers	1 111	1 104	71	58	10 724	8 438	30	16	57	7
Typists	2 523	2 474	962	936	21 677	20 978	516	490	338	327
Information clerks	2 604	2 461	1 280	1 079	13 142	12 137	1 407	1 252	1 233	1 122
Interviewers	304	259	97	40	1 977	1 598	35	35	10	10
Hold clerks	30	22	36	22	207	165	292	216	6	6
Transportation ticket and reservation agents	1 789	1 771	800	762	5 792	5 615	724	690	876	867
Receptionists	461	375	297	255	5 216	4 759	356	311	341	339
Information clerks, n.e.c.	4 036	2 871	596	336	8 248	6 466	1 708	989	615	377
Records processing occupations, except financial	21	7	3	3	146	94	10	14	—	—
Classified-ad clerks	77	71	26	13	172	87	14	14	—	—
Correspondence clerks	886	536	156	54	3 012	2 107	1 097	467	379	166
Order clerks	261	223	132	102	257	218	113	67	35	35
Personnel clerks, except payroll and timekeeping	57	36	7	7	45	39	—	—	5	—
Library clerks	1 933	1 438	221	149	4 072	3 499	428	395	189	169
File clerks	801	560	49	13	564	422	46	46	7	7
Records clerks	6 496	5 587	2 628	2 314	23 588	21 354	7 142	6 431	18 317	17 102
Financial records processing occupations	4 689	4 047	2 100	1 891	19 777	18 091	6 516	5 843	17 785	16 749
Bookkeepers, accountants, and auditing clerks	920	766	361	289	969	845	189	189	138	108
Payroll and timekeeping clerks	551	506	124	113	2 023	1 852	420	384	283	231
Billing clerks	122	82	21	6	467	235	23	32	106	19
Cost and rate clerks	214	166	22	15	357	331	23	23	5	—
Billing, posting, and calculating machine operators	764	428	160	67	5 115	3 515	55	43	21	21
Duplicating, mail, and other office machine operators	180	115	26	15	1 542	935	6	6	8	8
Duplicating machine operators	64	25	16	6	556	400	—	—	—	—
Mail preparing and paper handling machine operators	520	288	118	46	3 017	2 180	49	37	13	13
Office machine operators, n.e.c.	535	463	687	552	24 062	22 804	107	98	71	71
Communications equipment operators	465	460	596	511	17 032	16 231	107	98	71	71
Telephone operators	49	34	18	5	231	158	—	—	—	—
Telegraphers	21	9	73	36	6 799	6 415	—	—	—	—
Communications equipment operators, n.e.c.	2 273	700	874	210	15 074	5 114	222	94	410	72
Mail and message distributing occupations	—	—	—	—	—	—	—	—	—	—
Postal clerks, except mail carriers	1 341	545	198	82	6 450	3 771	152	73	56	6
Mail carriers, postal service	932	135	676	128	8 624	1 343	70	21	354	66
Mail clerks, except postal service	5 298	2 638	3 965	1 742	17 160	7 621	2 619	1 098	2 860	598
Messengers	377	226	3 041	1 448	226	113	113	466	277	105
Material recording, scheduling, and distributing clerks	2 027	1 141	249	127	2 714	1 333	745	292	187	64
Dispatchers	846	152	338	67	3 786	1 469	140	57	378	67
Production coordinators	1 026	401	212	32	7 655	3 432	430	120	1 920	311
Traffic, shipping, and receiving clerks	—	—	—	—	—	—	—	—	—	—
Stock and inventory clerks	—	—	—	—	—	—	—	—	—	—
Meier readers	40	9	64	36	924	404	60	53	16	4
Weights, measurers, and checkers	—	—	—	—	196	16	—	—	—	—
Samples	—	—	—	—	772	499	—	—	—	—
Expeditors	913	692	47	30	—	—	124	103	82	47
Material recording, scheduling, and distributing clerks, n.e.c.	69	17	14	—	165	115	7	7	—	—
Adjusters and investigators	3 815	2 109	1 196	386	24 236	14 331	1 080	512	343	77
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	3 593	1 952	931	296	10 878	6 738	706	401	290	63
Equality clerks, social welfare	19	19	—	—	57	55	—	—	—	—
Ball and account collectors	203	138	265	90	13 301	7 538	374	111	49	10
Miscellaneous administrative support occupations	42 766	37 924	2 930	2 258	38 158	31 742	5 318	4 395	4 451	3 903
General office clerks	5 664	4 494	1 895	1 531	21 621	18 307	4 092	3 403	4 157	3 691
Bank tellers	—	—	—	—	—	—	—	—	—	—
Proofreaders	610	494	27	23	600	485	4	4	111	90
Data-entry keyers	32 897	31 098	488	434	6 427	6 477	486	654	87	79
Statistical clerks	1 394	596	104	57	1 200	905	151	101	14	14
Teachers aides	31	31	14	—	65	49	—	—	—	—
Miscellaneous support occupations, n.e.c.	2 170	1 211	402	213	7 705	5 519	385	233	89	43
Electrical repair shops										
Automotive repair shops										
Miscellaneous repair services										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	3 265	793	167 389	22 375	15 754	5 312	4 172	509	3 979	399	799	250	2 888	624
Private household occupations	999	160	164 207	21 289	2 947	364	508	42	285	25	59	9	153	—
Protective service occupations	37	5	6 109	645	143	31	—	5	85	—	—	—	—	—
Supervisors, protective service occupations	—	—	—	—	16	5	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	37	5	5 979	642	127	26	5	5	65	—	—	—	9	—
Freight and fire prevention occupations	7	—	661	11	87	—	—	—	—	—	—	—	2	—
Fire inspection and fire prevention occupations	7	—	373	6	19	—	—	—	—	—	—	—	7	—
Freight and fire prevention occupations	—	—	288	5	68	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	955	155	157 437	20 633	2 717	333	503	37	220	25	59	9	144	—
Crossing guards	937	142	156 911	20 528	2 647	305	497	37	220	25	59	9	144	—
Guards and police, except public service	18	13	445	82	70	28	6	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	2 266	633	3 182	1 086	12 807	4 948	3 664	467	3 694	374	740	241	2 735	624
Food preparation and service occupations	130	64	542	194	1 437	923	113	52	129	38	79	42	198	63
Supervisors, food preparation and service occupations	—	—	—	—	133	82	8	8	6	—	—	—	23	5
Bartenders	21	10	31	23	52	20	27	14	61	23	16	34	31	31
Waiters and waitresses	35	19	353	51	298	230	52	13	8	8	8	8	31	10
Cooks, except short order	—	—	—	—	94	71	6	6	22	7	7	—	—	—
Short-order cooks	12	—	6	—	21	13	—	—	—	—	—	—	20	10
Food counter, fountain and related occupations	30	9	19	5	108	44	9	5	14	—	—	—	11	10
Kitchen workers, food preparation	19	19	15	15	—	—	—	—	—	—	—	—	50	7
Waiters' and waitresses' assistants	13	7	108	100	234	131	9	—	18	—	14	—	19	12
Miscellaneous food preparation occupations	94	50	126	61	461	352	12	7	7	—	6	—	6	6
Health service occupations	13	6	21	—	57	34	5	—	7	—	—	—	7	—
Dental assistants	18	6	—	—	398	312	7	—	—	—	—	—	6	—
Health aides, except nursing	63	44	105	61	862	2 101	3 194	359	3 454	283	551	127	2 193	410
Nursing aides, orderlies, and attendants	1 898	438	1 977	624	8 862	47	75	13	110	7	84	17	130	13
Cleaning and building service occupations, except household	103	14	122	49	304	512	321	69	110	276	92	42	319	101
Supervisors, cleaning and building service workers	69	51	234	103	1 009	512	321	290	3 331	—	375	68	1 738	296
Maid and houseman	1 647	366	1 526	472	7 177	1 486	2 798	—	—	—	—	—	6	—
Janitors and cleaners	21	7	41	—	136	37	—	—	—	—	—	—	—	—
Elevator operators	58	7	74	—	236	19	—	—	—	—	—	—	—	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations	144	81	517	207	2 047	1 572	345	49	104	53	104	72	325	139
Supervisors, personal service occupations	2	2	30	23	45	15	40	5	5	—	8	—	101	7
Barbers	14	5	5	—	122	99	25	7	12	32	76	67	38	15
Hairstylists and cosmetologists	5	—	31	—	128	83	159	7	12	12	—	—	2	2
Attendants, amusement and recreation facilities	22	20	24	—	115	61	—	—	—	—	—	—	—	—
Guides	37	12	265	58	23	11	5	—	—	—	—	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	35	12	48	6	—	—	—	—	—	—	18	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	20	20	11	5	156	113	9	9	—	—	—	—	67	54
Child care workers, except private household	44	20	106	83	1 400	1 184	107	26	31	9	12	5	99	61
Personal service occupations, n.e.c.	112	17	114	28	715	169	193	19	62	—	—	—	2 141	65
Farming, forestry, and fishing occupations	17	17	91	28	453	103	184	19	57	—	—	—	2 121	65
Farm operators and farm managers	95	—	—	—	378	80	169	8	48	—	—	—	66	6
Related occupations	—	—	86	23	46	23	15	11	9	—	—	—	2 055	59
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	88	—	5	—	—	—	—	—	—	—	—	—	—	—
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	7	—	—	—	22	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Business and repair services—Con.														
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.														
Forestry and logging occupations	—	—	10	—	157	17	9	—	5	—	—	—	12	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Timber workers, except logging	—	—	10	—	37	17	—	—	—	—	—	—	12	—
Timber cutting and logging occupations	—	—	13	—	120	6	9	—	5	—	—	—	8	—
Fishers, hunters, and trappers	—	—	13	—	18	6	—	—	—	—	—	—	8	—
Captains and other officers, fishing vessels	—	—	—	—	16	—	—	—	—	—	—	—	—	—
Fishers	—	—	—	—	19	—	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations														
Mechanics and repairers	22 088	1 756	12 758	496	45 865	5 834	34 349	847	519 230	6 032	101 075	1 892	166 026	12 967
Supervisors, mechanics and repairers	18 508	936	4 422	96	24 636	976	30 645	494	505 447	5 276	96 204	1 763	108 702	3 626
Mechanics and repairers, except supervisors	18 101	895	200	12	1 126	93	2 218	41	13 522	241	1 506	28	2 679	39
Vehicle and mobile equipment mechanics and repairers	193	—	4 222	84	23 510	883	28 427	453	491 925	5 035	94 698	1 735	106 023	3 587
Automobile mechanics	152	—	805	10	4 090	55	26 221	358	481 156	4 836	1 919	20	28 361	272
Bus, truck, and stationary engine mechanics	—	—	585	3	1 436	18	17 058	276	337 071	3 378	1 048	5	4 091	103
Aircraft engine mechanics	—	—	57	—	313	7	6 148	46	16 608	115	119	—	6 202	29
Small engine repairers	—	—	13	—	437	8	14	—	57	8	—	—	322	5
Automobile body and related repairers	6	—	14	—	307	3	52	—	549	23	152	7	7 723	96
Aircraft mechanics, except engine	17	—	115	2	76	—	2 660	36	125 200	1 299	188	—	541	—
Heavy equipment mechanics	6	—	5	—	12	—	105	5	55	—	300	8	4 133	25
Farm equipment mechanics	12	—	11	—	1 451	14	215	—	1 340	—	—	—	5 285	14
Industrial machinery repairers	731	69	153	—	3 516	115	450	23	1 232	28	1 799	38	5 457	79
Machinery maintenance occupations	13	—	12	—	430	24	42	—	117	2	30	—	197	—
Electrical and electronic equipment repairers	15 478	701	1 050	31	4 974	289	339	2	2 765	121	66 156	1 313	5 614	255
Electronic repairers, communications and industrial equipment	589	21	413	17	3 184	153	164	—	694	35	39 533	766	1 450	45
Household appliances and power tool repairers	14 390	664	283	6	605	44	10	—	65	16	585	24	223	21
Telephone line installers and repairers	142	11	114	—	542	41	103	2	181	7	21 158	301	2 554	78
Telephone installers and repairers	237	5	102	—	26	6	—	—	7	—	38	—	14	—
Miscellaneous electrical and electronic equipment repairers	91	—	—	—	276	31	12	—	17	—	306	53	323	100
Heating, air conditioning, and refrigeration mechanics	—	—	138	8	341	14	50	—	1 801	63	4 536	169	1 050	11
Miscellaneous mechanics and repairers	48	11	33	—	353	—	158	—	293	—	18 463	122	4 978	23
Comptrol, watch, and musical instrument repairers	1 618	114	2 149	43	10 417	400	1 217	70	6 422	48	6 331	242	4 978	23
Comptrol and safe repairers	24	—	83	—	45	22	9	—	25	—	182	—	1 116	—
Office machine repairers	585	38	210	—	55	8	23	—	37	—	152	—	1 138	—
Mechanical and electrical equipment repairers	9	—	36	—	2 090	82	40	—	97	7	1 462	84	5 267	173
Electricians and related occupations	—	—	32	—	50	23	42	—	77	—	145	18	125	—
Electricians	17	7	12	—	185	11	4	—	13	—	70	—	427	—
Specialized mechanics and repairers, n.e.c.	244	5	1 191	32	3 785	151	751	22	4 296	31	2 848	82	20 983	725
Not specified mechanics and repairers	739	64	635	11	3 439	102	348	17	1 785	4	1 400	51	6 694	141
Construction trades														
Supervisors, construction occupations	588	59	6 725	140	7 457	362	719	18	3 678	85	3 378	51	5 410	177
Supervisors, bricklayers, stonemasons, and tile setters	43	6	243	—	467	32	31	—	79	—	174	—	225	—
Supervisors, carpenters and related workers	—	—	7	—	—	—	—	—	—	—	18	—	—	—
Supervisors, electricians and power transmission installers	13	—	5	—	23	—	3	—	1	—	—	—	2	—
Supervisors, painters, paperhangers, and plasterers	—	—	35	—	69	—	—	—	39	—	104	—	36	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	21	—	15	9	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	30	6	182	—	63	16	—	—	—	—	—	—	—	—
Construction trades, except supervisors	545	53	6 482	140	290	7	28	—	39	—	52	—	148	—
Bricklayers and stonemasons	10	—	4	—	6 990	330	688	18	3 599	85	3 204	51	5 185	177
Tile setters, hard and soft	—	—	2	—	42	—	13	—	27	—	23	—	85	—
Carpenters	—	—	—	—	18	—	16	—	—	—	7	—	34	—
Carpenters	—	—	—	—	153	24	10	—	32	—	—	—	27	—
Drywall installers	110	15	87	6	1 362	42	176	7	368	10	95	6	1 052	32
Electricians	9	—	10	—	34	—	9	—	7	—	23	—	21	—
Electrical power installers and repairers	258	26	4 942	114	869	24	82	—	339	14	2 618	32	854	13
Painters, construction and maintenance	19	—	72	—	43	—	13	—	6	—	23	—	38	—
Paperhangers	46	3	64	—	1 229	110	270	4	1 990	37	62	7	696	89

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United States														
Business and repair services—Con.														
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Construction trades—Con.														
Construction trades, except supervisors—Con.														
Plasterers	64	4	7	6	18	26	47	—	22	7	136	6	1 076	—
Painters, pipefitters, and steamfitters	—	—	1 227	—	1 762	—	—	—	95	—	6	—	—	—
Concrete and masonry finishers	—	—	—	—	50	6	7	—	630	12	41	—	198	10
Glaziers	8	8	7	—	43	6	—	—	19	—	—	—	42	—
Insulation workers	—	—	—	—	11	—	2	—	5	—	—	—	6	—
Painting, varnishing, and tamping equipment operators	—	—	6	—	—	—	—	—	7	—	—	—	—	—
Roofers	—	—	7	—	24	—	12	—	9	—	101	—	32	—
Shermetal duct installers	6	—	—	—	42	—	—	—	5	—	—	—	126	—
Structural metal workers	12	—	36	8	1 051	49	31	—	38	5	69	—	42	—
Drillers, earth	17	—	24	—	155	12	5	—	22	—	7	—	81	—
Construction trades, n.e.c.	17	—	10	—	78	5	—	—	15	—	5	—	33	—
Extractive occupations	5	—	7	—	19	—	—	—	7	—	—	—	30	—
Supervisors, extractive occupations	6	—	7	—	5	—	5	—	—	—	2	—	9	—
Drillers, oil well	—	—	—	—	39	7	—	—	—	—	—	—	4	—
Explosives workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	—	—	7	—	—	—	—	—	—	—	—	—	—	—
Precision production occupations	2 975	761	1 587	260	13 617	4 484	2 980	335	10 083	671	1 486	78	51 833	9 156
Supervisors, production occupations	1 741	541	1 247	189	8 368	2 724	2 146	237	2 504	85	546	23	3 732	160
Precision metalworking occupations	227	28	87	—	1 546	200	152	15	2 093	66	659	19	7 018	159
Tool and die makers	11	—	5	—	130	6	2	—	57	—	—	—	944	17
Precision assemblers, metal	36	16	10	—	822	68	112	7	1 895	60	6	—	55	—
Machinists	159	12	72	—	54	—	6	—	11	—	538	6	2 477	27
Boilermakers	—	—	—	—	6	—	7	—	9	—	32	6	1 839	16
Precision grinders, filers, and tool sharpeners	7	—	—	—	23	—	—	—	—	—	13	7	775	39
Pattenmakers and model makers, metal	—	—	—	—	68	—	—	—	—	—	5	—	38	—
Lay-out workers	—	—	—	—	44	—	—	—	18	—	—	—	527	—
Precious stones and metals workers (jewelers)	—	—	—	—	62	9	—	—	—	—	4	—	20	—
Engravers, metal	—	—	—	—	185	72	7	—	83	6	61	—	316	—
Sheet metal workers	14	—	—	—	175	—	8	—	—	—	—	—	9	—
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision woodworking occupations	—	—	—	—	176	15	47	6	69	11	24	2	13 976	1 818
Pattenmakers and model makers, wood	—	—	—	—	14	—	—	—	—	—	—	—	29	7
Cabinet makers and bench carpenters	—	—	—	—	92	5	30	3	18	—	11	—	6 234	662
Furniture and wood finishers	—	—	—	—	56	—	17	—	51	5	13	2	7 684	1 149
Miscellaneous precision woodworkers	—	—	—	—	14	—	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	13	5	27	22	1 477	1 259	106	16	3 942	336	18	7	25 985	6 865
Dressmakers	5	5	22	—	191	112	—	—	206	165	7	7	634	534
Tailors	1	—	—	—	42	—	—	—	24	—	—	—	14	—
Upholsterers	—	—	—	—	150	61	106	16	3 750	171	11	—	25 151	6 272
Shoe repairers	—	—	—	—	11	—	—	—	2	—	—	—	10	—
Apparel and fabric patternmakers	7	—	5	—	78	50	—	—	—	—	—	—	25	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	5	—	—	—	—	—	—	—	—	—
Precision workers, assorted materials	224	140	34	24	460	197	10	—	84	36	117	27	278	36
Hand molders and shapers, except jewelers	5	—	—	—	57	10	—	—	—	—	—	—	55	—
Pattenmakers, lay-out workers, and cutters	9	9	—	—	75	34	—	—	—	—	6	—	13	—
Optical goods workers	15	—	—	—	22	—	—	—	5	—	—	—	73	—
Dental laboratory and medical appliance technicians	4	—	—	—	—	—	—	—	—	—	—	—	46	—
Bookbinders	169	124	24	24	189	15	6	—	47	36	107	27	29	3
Electrical and electronic equipment assemblers	22	—	10	—	97	22	4	—	32	—	4	—	62	—
Miscellaneous precision workers, n.e.c.	—	—	—	—	124	8	—	—	91	—	—	—	413	79
Precision food production occupations	—	—	—	—	106	11	16	5	23	—	—	—	13	—
Butchers and meat cutters	—	—	—	—	11	—	6	—	14	—	—	—	34	—
Bakers	—	—	—	—	7	—	5	—	—	—	—	—	301	41
Food batchmakers	114	28	40	14	542	42	457	56	1 182	137	60	—	235	37
Precision inspectors, testers, and related workers	114	28	40	14	536	42	457	56	1 182	137	60	—	232	—
Inspectors, testers, and graders	—	—	—	—	6	—	—	—	—	—	—	—	23	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.														
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Precision production occupations—Con.														
Plant and system operators	656	19	152	11	924	32	35	—	98	—	62	—	176	2
Water and sewage treatment plant operators	12	—	6	—	103	8	—	—	—	—	—	—	10	—
Power plant operators	9	—	7	—	20	8	28	—	—	—	56	—	128	2
Stationary engineers	635	19	120	6	710	13	7	—	91	—	6	—	38	—
Miscellaneous plant and system operators	—	—	19	5	—	11	—	—	—	—	—	—	—	—
Operators, fabricators, and laborers	7 085	—	5 988	933	115 388	39 032	80 412	7 426	69 849	3 841	6 650	915	91 246	5 038
Machine operators, assemblers, and inspectors	4 491	2 762	2 304	555	66 797	29 020	2 506	257	37 983	1 344	3 619	713	73 372	4 099
Machine operators and inspectors, except precision	2 856	1 318	1 081	306	48 292	24 106	1 631	174	29 412	914	2 601	545	12 277	2 354
Machine operators and plastic working machine operators	209	106	15	—	588	82	106	7	869	42	134	22	5 333	416
Metalworking and plastic working machine operators	—	—	—	—	36	—	—	—	—	—	—	—	141	—
Lathe and turning machine operators	63	47	8	—	58	16	9	—	119	—	57	—	338	—
Lathe and turning machine operators	6	—	—	—	23	5	6	—	20	—	5	—	22	—
Milling and planing machine operators	37	13	—	—	100	34	—	—	46	10	5	8	218	9
Punching and stamping press machine operators	—	—	—	—	—	—	—	—	—	—	8	—	18	8
Rolling machine operators	28	9	—	—	6	—	—	—	37	—	—	—	69	20
Drilling and boring machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	25	15	7	—	322	27	59	—	564	30	73	14	4 229	257
Forging machine operators	15	15	7	—	20	—	14	—	12	—	—	—	70	6
Metal and plastic processing machine operators	—	—	—	—	—	—	—	—	41	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	35	7	—	—	23	—	18	7	30	2	11	—	228	116
Fabricating machine operators, n.e.c.	5	—	—	—	95	25	4	—	60	9	53	14	84	16
Metal and plastic processing machine operators	60	7	23	16	395	166	4	—	204	17	53	—	219	9
Molding and casting machine operators	38	—	—	—	285	134	4	—	140	11	29	—	76	9
Metal patting machine operators	22	7	7	—	82	32	4	—	64	6	17	—	30	—
Heat treating equipment operators	—	—	—	—	18	—	—	—	—	—	—	—	75	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Woodworking machine operators	11	11	13	6	10	21	—	—	43	—	7	—	38	17
Wood turning, routing, and planing machine operators	—	—	—	—	140	—	—	—	—	—	—	—	267	—
Sawing machine operators	11	11	5	—	57	8	—	—	11	—	—	—	83	6
Shaping and joining machine operators	—	—	2	—	2	2	—	—	32	—	—	—	—	—
Nailing and nailing machine operators	—	—	6	6	81	11	—	—	—	—	—	—	—	—
Miscellaneous woodworking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	184	11
Printing machine operators	638	316	94	39	4 433	2 014	15	—	30	—	13	6	54	7
Printing machine operators	343	64	69	20	2 823	1 046	15	—	24	—	7	—	19	—
Photoengravers and lithographers	58	45	16	9	734	416	—	—	6	—	—	—	—	—
Typesetters and compositors	172	159	9	—	732	468	—	—	—	—	—	—	18	—
Miscellaneous printing machine operators	65	48	—	—	144	86	—	—	—	—	6	6	17	7
Textile, apparel, and furnishings machine operators	62	34	114	35	987	649	73	20	167	98	55	29	1 280	1 009
Knitting, looping, tying, and weaving machine operators	—	—	6	—	9	1	—	—	2	—	—	—	44	—
Textile cutting machine operators	—	—	—	—	23	12	—	—	—	—	—	—	8	8
Textile sewing machine operators	6	—	—	—	31	—	—	—	—	—	—	—	74	25
Shoe machine operators	13	—	54	16	646	513	—	—	99	61	5	—	1 006	939
Pressing machine operators	—	—	—	—	6	6	—	—	14	14	—	—	39	4
Laundries and dry cleaning machine operators	12	12	54	19	44	30	13	7	21	14	29	29	43	20
Miscellaneous textile machine operators	31	22	—	—	122	49	47	13	12	12	21	—	66	—
Machine operators, assorted materials	1 871	844	822	210	106	38	13	13	19	9	9	—	86	—
Cementing and gluing machine operators	19	6	—	—	41 654	21 149	1 429	147	28 039	748	2 273	474	5 040	880
Extruding and forming machine operators	23	23	—	—	285	137	—	—	20	—	7	—	32	2
Extruding and forming machine operators	46	11	21	—	925	516	—	—	7	7	7	—	60	28
Mixing and blending machine operators	—	—	—	—	23	74	16	6	13	13	—	—	14	5
Separating, filtering, and clarifying machine operators	7	—	21	21	232	13	6	—	30	—	—	—	35	6
Compressing and compacting machine operators	39	10	8	—	100	62	797	25	54	6	—	—	16	—
Painting and painting machine operators	8	—	—	—	392	45	—	—	24 633	532	109	—	824	49
Roasting and baking machine operators, food	—	—	—	—	15	—	18	8	5	—	6	—	66	—
Washing, cleaning, and picking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States																											
Computer and data processing services				Detective and protective services				Business services, n.e.c.				Automotive services, except repair				Automotive repair shops				Electrical repair shops				Miscellaneous repair services			
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
Employed persons 16 years and over—Con.																											
Operators, fabricators, and laborers—Con.																											
Machine operators, assemblers, and inspectors—Con.																											
Machine operators and tenders, except precision—Con.																											
Machine operators, assemblers, and inspectors—Con.																											
Folding machine operators																											
Furnace, lad, and oven operators, except food																											
Crushing and grinding machine operators																											
Slicing and cutting machine operators																											
Motion picture projectionists																											
Photographic process machine operators																											
Miscellaneous machine operators, n.e.c.																											
Machine operators, not specified																											
Fabricators, assemblers, and hand working occupations																											
Welders and cutters																											
Soldiers and brazers																											
Assemblers																											
Hand crimping and trimming occupations																											
Hand molding, casting, and forming occupations																											
Hand painting, coating and decorating occupations																											
Hand engraving and printing occupations																											
Hand grinding and polishing occupations																											
Miscellaneous hand working occupations																											
Production inspectors, testers, samplers, and weighers																											
Production inspectors, checkers, and examiners																											
Production testers																											
Production samplers and weighers																											
Graders and sorters, except agricultural																											
Transportation and material moving occupations																											
Motor vehicle operators																											
Supervisors, motor vehicle operators																											
Truck drivers, heavy																											
Truck drivers, light																											
Driver-sales workers																											
Bus drivers																											
Taxicab drivers and chauffeurs																											
Parking lot attendants																											
Motor transportation occupations, n.e.c.																											
Rail transportation occupations																											
Locomotive conductors and yardmasters																											
Locomotive operating occupations																											
Railroad brake, signal, and switch operators																											
Rail vehicle operators, n.e.c.																											
Water transportation occupations																											
Ship captains and mates, except fishing boats																											
Salors and deckhands																											
Marine engineers																											
Bridge, lock, and lighthouse tenders																											
Material moving equipment operators																											
Supervisors, material moving equipment operators																											
Operating engineers																											
Longshore equipment operators																											
Hoist and winch operators																											
Crane and tower operators																											
Excavating and loading machine operators																											
Grader, dozer, and scraper operators																											
Industrial truck and tractor equipment operators																											
Miscellaneous material moving equipment operators																											

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and leaders, except precision—Con.
Machine operators, except materials—Con.

Folding machine operators

Trenches, lay, and crew operators, except food

Crushing and grinding machine operators

Sizing and cutting machine operators

Women picture projectionists

Photographic process machine operators

Miscellaneous machine operators, n.e.c.

Machine operators, not specified

Fabricators, assemblers, and hand working occupations

Molders and cutters

Assemblers

Solders and brazers

Hand cutting and trimming occupations

Hand molding, casting, and forming occupations

Hand painting, coating and decorating occupations

Hand engraving and printing occupations

Hand grinding and polishing occupations

Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers

Production inspectors, checkers, and examiners

Production testers

Production samplers and weighers

Graders and sorters, except agricultural

Transportation and material moving occupations

Motor vehicle operators

Supervisors, motor vehicle operators

Truck drivers, heavy

Truck drivers, light

Driver-sales workers

Bus drivers

Taxi drivers and chauffeurs

Parking lot attendants

Motor transportation occupations, n.e.c.

Rail transportation occupations

Railroad conductors and yardmasters

Locomotive operating occupations

Railroad brake, signal, and switch operators

Rail vehicle operators, n.e.c.

Water transportation occupations

Ship captains and mates, except fishing boats

Sailors and deckhands

Marine engineers

Bridge, lock, and lighthouse tenders

Material moving equipment operators

Operating equipment

Longshore equipment operators

Hoist and winch operators

Crane and tower operators

Extruding and loading machine operators

Grading, dozer, and scraper operators

Industrial truck and tractor equipment operators

Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Employed persons 16 years and over—Con.												
Operators, fabricators, and laborers—Con.												
Handlers, equipment cleaners, helpers, and laborers												
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.												
Helpers, mechanics and repairers												
Helpers, construction and extractive occupations												
Helpers, construction trades												
Helpers, surveyor												
Helpers, extractive occupations												
Construction laborers												
Production helpers												
Freight, stock, and material handlers												
Garbage collectors												
Stewards												
Stock handlers and buggies												
Machine feeders and offbearers												
Freight, stock, and material handlers, n.e.c.												
Garage and service station related occupations												
Vehicle washers and equipment cleaners												
Hand packers and packagers												
Laborers, except construction												
Business and repair services—Con.												
Computer and data processing services												
Detective and protective services												
Business services, n.e.c.												
Automotive services, except repair												
Automotive repair shops												
Electrical repair shops												
Miscellaneous repair services												
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Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.	
Handers, equipment cleaners, helpers, and laborers	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	
Helpers, mechanics and repairers	
Helpers, construction and extractive occupations	
Helpers, construction trades	
Helpers, surveyor	
Helpers, extractive occupations	
Construction laborers	
Production helpers	
Freight, stock, and material handlers	
Garbage collectors	
Stevardores	
Stock handlers and bidders	
Machine feeders and offbearers	
Freight, stock, and material handlers, n.e.c.	
Garage and service station related occupations	
Vehicle washers and equipment cleaners	
Hand packers and packagers	
Laborers, except construction	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States											
Personal services											
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
3 075 744	2 165 306	701 440	637 558	857 999	502 176	193 810	153 997	399 842	235 346	561 980	490 326
341 637	131 279	9 137	7 269	136 694	55 037	26 121	11 141	54 584	17 862	5 670	3 866
269 476	96 189	1 973	933	125 340	50 846	23 194	9 520	53 743	17 636	4 965	3 308
Employed persons 16 years and over											
Managerial and professional specialty occupations											
Executive, administrative, and managerial occupations											
Legislators, chief executives, and general administrators											
Public administration											
Administrators and officials, public administration											
Federal											
State											
Local											
Administrators, protective services											
Financial managers											
Personnel and labor relations managers											
Purchasing managers											
Managers, marketing, advertising, and public relations											
Administrators, education and related fields											
Managers, medicine and health											
Managers, properties and real estate											
Postmasters and mail superintendents											
Funeral directors											
Managers and administrators, n.e.c.											
Salaries											
Self-employed											
Management related occupations											
Accountants and auditors											
Underwriters											
Other financial officers											
Management analysts											
Personnel, training, and labor relations specialists											
Purchasing agents and buyers, farm products											
Buyers, wholesale and retail trade except farm products											
Purchasing agents and buyers, n.e.c.											
Business and promotion agents											
Construction inspectors											
Inspectors and compliance officers, except construction											
Management related occupations, n.e.c.											
Professional specialty occupations											
Engineers, architects, and surveyors											
Architects											
Engineers											
Aerospace engineers											
Metallurgical and materials engineers											
Mining engineers											
Petroleum engineers											
Chemical engineers											
Nuclear engineers											
Civil engineers											
Electrical engineers											
Mechanical engineers											
Marine engineers and naval architects											
Engineers, n.e.c.											
Surveyors and mapping scientists											
Mathematical and computer scientists											
Computer systems analysts and scientists											
Operations and systems researchers and analysts											
Actuaries											
Statisticians											
Mathematical scientists, n.e.c.											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States													
Personal services													
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
283	100	46	5	71	33	41	20	15	9	13	13	-	-
8	6	-	-	-	-	-	-	-	-	-	-	-	-
19	-	6	-	-	-	-	-	-	-	-	-	-	-
2	2	-	-	2	2	-	-	-	-	-	-	-	-
65	15	-	-	-	-	-	-	15	9	-	-	-	-
81	32	-	-	-	-	-	-	-	-	-	-	-	-
45	32	34	5	40	27	7	14	-	-	-	-	-	-
45	22	6	-	27	2	22	6	-	-	5	5	-	-
18	11	-	-	-	-	12	-	-	-	8	8	-	-
279	128	102	40	18	-	-	-	6	-	53	53	2	2
187	78	83	26	18	-	-	-	6	-	43	43	2	2
19	11	7	7	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	39	12	7	-	-	-	-	-	-	10	10	-	-
7 556	7 013	5 262	5 020	379	297	169	154	28	28	78	65	6	6
6 067	5 842	4 855	4 667	236	221	89	89	1	1	19	19	-	-
67	9	28	-	47	9	7	-	-	-	7	7	-	-
433	421	28	28	36	29	27	27	20	20	11	5	6	6
865	456	347	300	46	29	41	33	7	7	40	40	-	-
124	85	32	25	14	8	5	5	-	-	-	-	-	-
315	206	39	21	98	44	31	31	-	-	19	19	-	-
13 798	9 891	891	775	2 388	1 052	642	489	92	53	204	181	-	-
217	210	22	22	173	166	6	6	5	5	5	5	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	68	70	58	9	886	636	483	87	48	193	176	-	-
13 486	9 613	799	695	2 206	886	124	80	68	22	31	25	-	-
336	231	39	25	32	22	7	7	22	22	-	-	-	-
158	76	12	2	21	22	7	7	-	-	-	-	-	-
74	61	2	2	28	22	-	-	46	-	-	-	-	-
84	15	10	13	13	-	-	-	-	-	-	-	-	-
925	466	62	45	241	102	60	20	27	-	10	10	-	-
349	143	11	11	234	102	55	15	23	-	-	-	-	-
156	75	45	28	7	-	5	5	4	-	-	-	-	-
5	5	-	-	-	-	-	-	-	-	-	-	-	-
414	243	6	6	-	-	-	-	-	-	10	10	-	-
1	-	-	-	-	-	-	-	-	-	-	-	-	-
2 712	1 486	211	139	233	110	1 341	599	58	27	6	6	6	6
1 307	624	105	99	84	36	352	195	52	21	-	-	-	-
987	773	74	14	112	64	814	382	6	6	-	-	-	-
325	32	32	26	27	10	137	16	-	-	-	-	-	-
93	57	32	26	10	10	38	16	-	-	-	-	-	-
276	25	6	-	162	19	5	-	6	-	14	4	2	2
276	25	6	-	162	19	5	-	6	-	14	4	2	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 578	15 107	444	244	6 406	2 263	436	204	267	76	217	147	47	22
77	43	7	-	8	-	8	8	-	-	-	-	-	-
52	23	6	-	25	10	-	-	-	-	-	-	-	-
1 180	701	53	51	404	229	24	16	45	14	107	73	24	7
3 560	978	47	7	2 720	429	43	10	8	-	-	-	-	-
1 555	35	13	-	66	28	-	-	-	-	-	-	-	-
661	435	83	44	105	23	11	11	6	-	19	13	-	-
30 483	8 095	5	-	173	92	16	6	62	5	5	-	8	8
301	245	9	9	292	236	-	-	-	-	-	-	-	-
3 767	2 549	79	36	1 086	322	19	6	-	-	-	-	15	15
318	67	67	50	111	75	-	-	6	6	11	11	-	-
1 893	1 189	7	7	1 044	702	116	43	132	46	75	50	-	-
181	33	-	-	147	33	8	8	8	5	-	-	-	-
950	552	68	40	205	71	189	104	-	5	-	-	-	-

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.
Professional specialty occupations—Con.

Natural scientists	100
Physicists and astronomers	6
Chemists, except biochemists	2
Atmospheric and space scientists	15
Geologists and geodesists	—
Physical scientists, n.e.c.	32
Agricultural and food scientists	24
Biological and life scientists	8
Forestry and conservation scientists	11
Medical scientists	128
Health diagnosing occupations	78
Physicians	11
Dentists	—
Veterinarians	—
Optometrists	—
Podiatrists	—
Health diagnosing practitioners, n.e.c.	39
Health assessment and treating occupations	7 013
Registered nurses	5 846
Pharmacists	67
Dietitians	427
Therapists	433
Physicians' assistants	124
Teachers, postsecondary	315
Teachers, except postsecondary	13 798
Teachers, prekindergarten and kindergarten	217
Teachers, elementary and secondary school	95
Teachers, special education	13 486
Teachers, n.e.c.	336
Counselors, educational and vocational	158
Librarians, archivists, and curators	74
Librarians	15
Archivists and curators	84
Social scientists and urban planners	925
Economists	349
Psychologists	143
Sociologists	156
Social scientists, n.e.c.	5
Urban planners	414
Social, recreation, and religious workers	2 712
Social workers	1 307
Recreation workers	987
Clergy	325
Religious workers, n.e.c.	93
Lawyers and judges	276
Lawyers	276
Judges	—
Writers, artists, entertainers, and athletes	43 578
Authors	77
Technical writers	52
Designers	1 180
Musicians and composers	3 560
Actors and directors	1 555
Painters, sculptors, craft-artists, and artist printmakers	661
Photographers	30 483
Dancers	301
Artists, performers, and related workers, n.e.c.	3 767
Editors and reporters	318
Public relations specialists	1 893
Announcers	181
Authors	950

Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con. For definitions of terms, see appendix A)

(Data are estimates based on a sample; see instructions.)

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Personal services									
	Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Technical, sales, and administrative support occupations—Con.										
Administrative support occupations, including clerical—Con.										
Secretaries, stenographers, and typists	35 977	34 850	3 070	2 987	14 786	14 481	2 421	2 382	3 896	3 806
Stenographers	32 559	31 954	2 531	2 472	13 844	13 597	2 280	2 241	3 460	3 400
Typists	173	158	14	10	46	31	—	—	51	51
Information clerks	2 865	2 758	525	501	896	853	141	141	385	355
Hotel clerks	89 112	67 783	304	270	66 960	46 821	599	467	1 148	1 093
Transportation ticket and reservation agents	61 008	41 678	72	16	60 936	41 605	72	43	5	5
Receptionists	25 148	23 902	193	179	4 628	4 133	449	388	898	881
Information clerks, n.e.c.	1 840	1 901	84	70	4 463	4 371	45	36	240	202
Records processing occupations, except financial	3 513	2 843	49	42	1 070	717	76	76	1 400	1 220
Classified-ad clerks	41	32	—	—	10	10	—	—	21	12
Correspondence clerks	36	36	—	—	11	11	19	19	—	—
Order clerks	2 049	1 573	7	7	435	211	24	24	1 154	992
Personnel clerks, except payroll and timekeeping	295	241	7	7	158	111	13	13	50	50
Library clerks	38	32	5	5	33	27	—	—	—	—
File clerks	973	861	30	30	394	318	14	14	164	155
Records clerks	81	68	—	—	29	29	6	6	11	11
Financial records processing occupations	34 170	27 631	738	668	17 585	12 327	1 909	1 757	7 551	7 034
Bookkeepers, accounting, and auditing clerks	30 285	24 811	733	663	15 177	10 878	1 848	1 704	6 500	6 034
Payroll and timekeeping clerks	2 419	2 158	—	—	1 738	1 106	27	27	428	417
Billing clerks	862	760	—	—	288	204	20	20	431	413
Cost and rate clerks	294	182	5	5	116	92	—	—	162	117
Riding, posting, and calculating machine operators	310	120	—	—	266	92	14	6	30	22
Duplicating, mail, and other office machine operators	335	217	9	9	202	147	5	—	64	36
Duplicating machine operators	58	35	—	—	42	33	5	—	—	—
Mail preparing and paper handling machine operators	59	59	9	9	16	16	—	—	28	28
Office machine operators, n.e.c.	218	123	—	—	144	98	—	—	36	8
Communications equipment operators	9 098	8 337	34	23	8 235	7 594	71	71	257	230
Telephone operators	9 055	8 304	26	15	8 200	7 569	71	71	257	230
Telegraphers	30	20	8	8	22	12	—	—	—	—
Communications equipment operators, n.e.c.	13	13	—	—	13	13	—	—	—	—
Mail and message distributing occupations	1 984	760	84	39	723	261	60	47	459	138
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	1 104	553	31	13	481	223	53	40	311	127
Mail clerks, except postal service	880	523	53	26	242	38	7	7	148	76
Messengers	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	11 122	7 190	75	42	3 553	1 444	197	105	5 599	4 372
Production occupations	303	161	6	—	148	161	—	—	91	61
Production occupations	1 072	860	20	20	191	129	5	2	627	523
Traffic, shipping, and receiving clerks	2 583	1 211	23	8	725	45	17	3	1 443	1 027
Stock and inventory clerks	3 231	1 583	21	9	1 601	529	129	54	1 119	812
Meter readers	—	—	—	—	—	—	—	—	—	—
Weights, measures, and checkers	1 525	1 386	—	—	90	78	41	41	712	614
Samplers	41	33	—	—	27	19	5	5	9	9
Expenditures	324	200	—	—	157	92	—	—	124	71
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	2 043	1 756	5	5	614	484	—	—	1 404	1 255
Insurance adjusters, examiners, and investigators	2 282	1 338	44	22	730	399	302	211	662	287
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—
Equality clerks, social welfare	1 175	712	16	10	504	273	12	5	375	227
Bill and account collectors	45	45	—	—	22	22	—	—	—	—
Bill and account collectors	1 062	581	28	12	204	104	290	206	287	60
Miscellaneous administrative support occupations	30 880	25 092	940	758	10 888	7 468	1 880	1 564	9 741	8 992
General office clerks	26 596	21 671	652	553	9 074	6 099	1 699	1 449	8 985	8 355
Bank tellers	99	89	30	25	12	12	6	6	—	—
Proofreaders	1 416	1 330	22	10	522	476	20	18	500	481
Data-entry keyers	57	57	31	31	117	98	23	23	92	81
Statistical clerks	86	82	41	41	119	119	—	—	—	—
Teachers' aides	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, n.e.c.	2 126	1 415	156	98	1 144	764	132	68	160	75
Beauty shops										
Beauty shops	—	—	—	—	—	—	—	—	—	—
Barber shops	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Personal services									
	Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops	
Total	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
1 989 606	1 570 783	611 131	505 114	312 369	147 784	132 737	21 062	10 247	533 168	465 835
589 352	562 886	562 886	10 408	1 146	1 180	249	323	53	25	20
13 600	1 968	37	522	16	21	2	24	6	—	—
611	—	—	—	—	—	—	—	—	—	—
611	61	37	522	16	21	2	24	6	—	—
304	52	26	45	4	205	13	7	—	—	—
264	43	26	29	4	205	13	7	—	—	—
40	9	—	16	4	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
12 685	1 855	309	10 041	1 126	954	234	292	47	25	20
10 249	952	268	8 292	550	653	56	286	47	25	20
2 404	891	41	1 742	569	301	178	6	—	—	—
1 386 654	1 005 929	47 873	494 506	311 223	146 604	132 488	20 739	10 194	533 143	465 815
289 894	101 322	—	193 901	95 302	6 744	4 607	1 151	838	133	85
17 779	5 976	—	17 398	5 673	245	159	54	30	—	—
20 212	8 114	—	19 961	7 991	86	48	31	13	17	11
78 534	57 304	—	76 939	56 457	1 046	540	237	161	35	30
24 504	15 049	—	30 558	11 736	3 590	3 131	166	112	45	35
1 016	430	—	962	413	33	13	13	—	—	—
2 394	1 308	—	1 780	743	42	42	462	440	35	29
3 127	2 370	—	2 941	2 136	232	108	—	—	—	—
20 468	9 438	—	20 015	3 322	1 310	503	83	32	—	—
24 920	7 470	—	23 347	6 831	1 304	59	105	50	—	—
33 170	31 215	26 337	1 752	1 936	1 304	1 178	59	59	56	43
28	19	9	9	9	—	—	—	—	5	5
992	733	331	322	230	60	37	—	—	18	12
32 150	30 463	25 997	1 421	1 306	1 244	1 141	59	59	33	26
312 303	228 690	24 512	244 812	189 627	10 723	3 855	15 943	6 494	8 602	5 186
14 025	9 844	140	11 584	8 842	207	76	1 428	2 044	513	318
219 339	193 527	14 889	193 455	171 346	3 663	2 711	2 975	2 044	1 571	1 191
77 672	24 883	9 375	38 890	9 119	6 844	1 068	11 459	3 980	6 556	3 617
1 086	391	47	11	320	9	—	70	6	36	34
181	45	16	25	—	—	—	11	—	124	24
838 287	644 702	1 414	54 041	24 758	127 833	122 848	3 586	2 803	524 352	460 501
10 484	6 022	19	3 571	954	42	23	82	73	4 733	3 910
100 760	13 421	9	2 703	22	194	22	234	55	2 880	1 051
523 677	460 822	64	1 450	1 150	887	838	2 483	2 113	510 772	449 912
16 016	8 449	8	14 442	5 254	378	368	34	27	443	38
1 143	61	16	356	158	13	13	—	—	53	—
—	81	7	86	46	—	—	—	—	—	—
12 251	578	—	12 058	518	61	28	41	6	—	—
125 724	123 948	—	924	815	118 076	116 724	240	237	3 583	3 416
47 831	33 577	1 429	20 931	15 841	7 324	4 712	472	292	1 938	1 752
25 840	2 752	16 629	4 263	270	3 500	832	69	13	508	406
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
25 495	2 645	16 495	4 188	248	3 418	813	67	13	499	397
510	365	23	55	5	27	4	396	356	79	356
24 357	2 010	16 148	4 018	205	3 359	799	67	13	14	14
589	246	102	88	24	30	10	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
39	24	—	27	14	2	—	—	—	10	10

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States													
Personal services													
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
261	97	116	36	32	20	67	19	2	—	7	7	—	—
2	2	9	9	13	6	16	—	—	—	—	—	—	—
38	15	107	27	19	14	51	19	2	—	7	7	—	—
221	80	18	—	36	2	15	—	—	—	2	2	—	—
77	10	12	—	27	—	—	—	—	—	—	—	—	—
39	8	—	—	7	—	15	—	—	—	2	2	—	—
30	2	6	—	2	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	—
102 197	39 841	4 657	588	24 006	2 107	3 299	244	27 154	11 618	792	443	150	15
14 392	748	720	54	6 356	187	1 309	49	4 537	201	284	175	54	9
14 722	30	5	—	5 479	11	51	—	105	—	17	14	—	—
13 670	718	715	54	5 877	176	1 258	49	4 432	201	267	161	54	9
1 792	65	344	35	653	24	119	—	521	3	26	—	—	—
1 163	56	279	35	298	18	72	—	441	—	17	—	6	—
137	—	24	—	11	—	43	—	57	—	—	—	—	—
7	—	7	—	—	—	2	—	6	—	—	—	—	—
115	—	23	—	79	—	—	—	—	—	—	—	—	—
99	3	61	—	20	—	—	—	9	3	9	—	5	—
—	—	—	—	—	—	2	—	—	—	—	—	—	—
258	6	—	—	240	6	—	—	—	—	—	—	—	—
13	—	—	—	5	—	—	—	6	—	—	—	—	—
3 712	127	50	—	1 318	35	128	19	1 971	66	28	—	—	—
37	6	6	—	12	—	3	—	15	—	—	—	—	—
1 667	36	77	3	431	12	39	—	1 065	14	14	—	—	—
368	2	13	—	285	—	26	—	13	—	8	—	—	—
26	15	3	—	23	12	13	—	—	—	6	—	—	—
1 191	7	61	3	74	—	—	—	1 037	7	—	—	—	—
—	—	—	—	—	—	—	—	15	7	—	—	—	—
28	7	—	—	13	—	—	—	—	—	—	—	—	—
54	5	—	—	36	—	—	—	—	—	—	—	—	—
822	3	10	—	733	—	30	—	14	—	—	—	—	—
5 620	481	228	3	2 730	105	939	30	846	118	199	161	43	9
83	21	18	7	17	9	—	—	3	—	—	—	—	—
159	22	—	—	126	22	—	—	9	—	—	—	14	—
18	5	—	—	10	5	—	—	—	—	—	—	—	—
18	5	—	—	10	—	—	—	—	—	—	—	—	—
168	13	6	—	123	13	37	—	8	—	—	—	—	—
37	6	—	—	—	—	—	—	37	—	—	—	—	—
2 728	175	89	—	1 399	33	694	30	268	75	17	—	—	—
2 399	239	115	—	1 045	23	208	—	521	37	182	161	29	9
16 458	668	3 357	186	9 643	225	1 531	26	1 156	81	239	122	25	—
1 413	147	25	—	933	39	217	—	88	5	131	103	—	—
5	—	—	—	5	—	10	—	6	—	4	—	—	—
82	—	—	—	62	—	6	—	6	—	—	—	—	—
34	—	—	—	28	—	—	—	—	—	—	—	—	—
7	—	—	—	7	—	—	—	—	—	—	—	—	—
12	—	—	—	12	—	—	—	—	—	—	—	—	—
1 273	147	25	—	819	39	207	—	76	5	127	103	—	—
15 045	521	3 332	186	8 710	186	1 314	26	1 068	76	168	19	25	—
220	—	96	—	80	—	8	—	7	—	6	—	—	—
63	4	—	—	57	4	—	—	—	—	—	—	—	—
426	22	11	—	154	—	21	—	428	22	6	—	—	—
5 219	108	1 426	36	2 764	33	631	10	120	15	92	8	19	—
109	10	25	—	45	—	31	—	8	—	—	—	—	—
1 609	10	67	2	1 230	—	138	—	96	—	—	—	—	—
12	6	6	—	—	—	—	—	—	—	—	—	—	—
4 825	276	1 429	127	2 864	109	255	6	153	26	35	6	—	—
201	35	28	15	167	20	—	—	—	—	—	—	—	—
Employed persons 16 years and over—Con.													
Farming, forestry, and fishing occupations—Con.													
Forestry and logging occupations													
Supervisors, forestry and logging workers													
Forestry workers, except logging													
Timber cutting and logging occupations													
Fishers, hunters, and trappers													
Captains and other officers, fishing vessels													
Hunters													
Hunters and trappers													
Precision production, craft, and repair occupations													
Mechanics and repairers													
Supervisors, mechanics and repairers													
Mechanics and repairers, except supervisors													
Vehicle and mobile equipment mechanics and repairers													
Automobile mechanics													
Bus, truck, and stationary engine mechanics													
Aircraft engine mechanics													
Small engine repairers													
Automobile body and related repairers													
Aircraft mechanics, except engine													
Heavy equipment mechanics													
Farm equipment mechanics													
Industrial machinery repairers													
Machinery maintenance occupations													
Electrical and electronic equipment repairers													
Electronic repairers													
Equipment													
Data processing equipment repairers													
Household appliance and power tool repairers													
Telephone line installers and repairers													
Telephone installers and repairers													
Miscellaneous electrical and electronic equipment repairers													
Heating, air conditioning, and refrigeration mechanics													
Mechanical mechanics and repairers													
Camera, watch, and musical instrument repairers													
Jewelry and safe repairers													
Locksmiths and safe repairers													
Office machine repairers													
Mechanical controls and valve repairers													
Refrigerator installers and repairers													
Plumbing													
Specialized mechanics and repairers, n.e.c.													
Not specified mechanics and repairers													
Construction trades													
Supervisors, construction occupations													
Supervisors, brickmasons, stonemasons, and tile setters													
Supervisors, carpenters and related workers													
Supervisors, electricians and power transmission installers													
Supervisors, painters, paperhangers, and plasterers													
Supervisors, plumbers, pipefitters, and steamfitters													
Supervisors, n.e.c.													
Construction trades, except supervisors													
Brickmasons and stonemasons													
Tile setters, hard and soft													
Carpenters													
Drywall installers													
Electrical power installers and repairers													
Painters, construction and maintenance													
Powerworkers													

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.	
Forestry and logging occupations	
Supervisors, forestry and logging workers	
Timber cutting and logging workers	
Fishers, hunters, and trappers	
Captains and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations	
Mechanics and repairers	
Supervisors, mechanics and repairers	
Mechanics and repairers, except logging	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationary engine mechanics	
Aircraft engine mechanics	
Small engine repairers	
Automobile body and related repairers	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairers	
Equipment	
Data processing equipment repairers	
Household appliances and power tool repairers	
Telephone line installers and repairers	
Telephone installers and repairers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Camera, watch, and musical instrument repairers	
Locksmiths and safe repairers	
Office machine repairers	
Mechanical controls and valve repairers	
Elevator installers and repairers	
Millwrights	
Specialized mechanics and repairers, n.e.c.	
Not specified mechanics and repairers	
Construction trades	
Supervisors, construction occupations	
Supervisors, bricklayers, stonemasons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, n.e.c.	
Construction trades, except supervisors	
Bricklayers and stonemasons	
Tile setters, hard and soft	
Carpenter installers	
Carpenters	
Drywall installers	
Electricians	
Electrical power installers and repairers	
Painters, construction and maintenance	
Paperhangers	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States													
Personal services													
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
92	7	7	—	85	7	189	—	73	—	11	5	—	—
1 447	10	100	—	1 055	5	16	—	—	—	—	—	—	—
17	—	1	—	12	—	6	—	12	—	7	—	—	—
48	—	6	—	9	—	—	—	—	—	—	—	—	—
7	—	—	—	7	—	—	—	—	—	—	—	—	—
45	—	11	—	23	—	6	—	—	—	5	—	—	—
5	—	—	—	5	—	—	—	—	—	—	—	—	—
13	—	—	—	7	—	—	—	—	—	—	—	—	—
6	6	6	6	146	8	13	—	171	13	—	—	—	—
469	27	113	—	2	2	2	2	23	—	—	—	—	—
27	4	—	—	2	—	2	—	20	—	—	—	—	—
2	2	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	3	—	—	—	—	—
5	2	—	—	2	—	—	—	—	—	—	—	—	—
71 320	38 421	590	348	8 005	1 693	457	167	21 438	11 336	209	146	71	6
12 549	5 478	79	32	2 277	1 210	159	55	8 984	3 715	139	88	6	6
784	161	86	22	189	16	50	16	347	77	5	5	—	—
5	—	—	—	—	—	12	—	—	—	—	—	—	—
18	6	26	—	114	—	14	—	266	53	5	5	—	—
480	65	30	—	26	—	19	—	12	12	—	—	—	—
80	12	2	—	8	—	8	—	—	—	—	—	—	—
22	6	—	—	—	—	—	—	6	6	—	—	—	—
6	6	—	—	—	—	—	—	17	6	—	—	—	—
78	44	28	22	11	—	16	16	—	—	—	—	—	—
18	6	—	—	—	—	—	—	27	—	—	—	—	—
66	16	—	—	33	16	—	—	—	—	—	—	—	—
5	—	—	—	5	—	—	—	—	—	—	—	—	—
160	28	44	21	61	5	36	—	10	—	2	2	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
90	5	8	—	50	5	27	—	5	—	2	2	—	—
58	23	29	21	11	—	9	—	—	—	—	—	—	—
12	7	—	—	—	—	—	—	—	—	—	—	—	—
51 738	32 276	257	216	411	200	94	75	11 566	7 460	59	47	35	—
26 944	25 488	224	211	160	140	59	48	2 518	2 406	29	29	—	—
8 783	4 834	6	3	37	21	6	—	8 392	4 648	13	8	—	—
15 256	1 515	27	2	129	5	17	17	166	25	17	10	7	—
7	—	—	—	61	21	10	10	411	337	—	—	—	—
460	362	—	—	24	13	2	—	38	38	—	—	—	—
172	77	18	12	46	10	—	—	38	—	—	—	—	—
23	48	—	—	3	—	—	—	—	—	—	—	—	—
62	23	—	—	24	10	—	—	—	—	—	—	—	—
23	12	12	12	14	—	—	—	—	—	—	—	—	—
26	10	6	—	5	—	—	—	—	—	—	—	—	—
16	7	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	—
975	231	43	37	833	136	32	20	10	10	4	4	23	—
555	39	20	20	521	115	4	4	10	10	4	4	—	—
377	168	23	17	287	113	26	20	27	27	—	—	—	—
43	24	14	18	25	6	—	—	—	—	—	—	—	—
95	—	12	—	16	—	—	—	—	—	—	—	—	—
93	—	2	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Construction trades—Con.
Masters
Plumbers, pipefitters, and steamfitters
Concrete and masonry finishers
Glaziers
Insulation workers
Paving, surfacing, and tamping equipment operators
Roofers
Sheetmetal duct installers
Structural metal workers
Drillers, earth
Construction trades, n.e.c.
Extractive occupations
Supervisors, extractive occupations
Drillers, oil well
Explosives workers
Mining machine operators
Mining occupations, n.e.c.
Precision production occupations
Supervisors, production occupations
Precision metalworking occupations
Tool and die makers
Precision assemblers, metal
Mechanists
Boilermakers
Precision grinders, filers, and tool sharpeners
Patternmakers and model makers, metal
Lay-out workers
Precision stones and metals workers (jewelers)
Engravers, metal
Sheet metal workers
Miscellaneous precision metal workers
Precision woodworking occupations
Patternmakers and model makers, wood
Cabinet makers and truck carpenters
Furniture and wood finishers
Miscellaneous precision woodworkers
Precision textile, apparel, and furnishings machine workers
Pressmakers
Unknitwear
Shoe repairs
Apparel and fabric patternmakers
Miscellaneous precision apparel and fabric workers
Precision workers, assorted materials
Hand molders and shapers, except jewelers
Patternmakers, lay-out workers, and cutters
Optical goods workers
Dental laboratory and medical appliance technicians
Bookbinders
Electrical and electronic equipment assemblers
Miscellaneous precision workers, n.e.c.
Precision food production occupations
Butchers and meat cutters
Bakers
Food batchmakers
Precision inspectors, testers, and related workers
Inspectors, testers, and graders
Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	United States									
	Personal services									
	Total	Male	Female	Private households	Hotels and motels	Lodging places, except hotels and motels	Laundry, cleaning, and garment services	Beauty shops	Barber shops	
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Precision production, craft, and repair occupations—Con.										
Precision production occupations—Con.										
Plumbers, pipefitters, and steamfitters	4 847	170	8	39	4 170	116	1	456	36	7
Water and sewer treatment plant operators	107	27	—	—	59	21	—	5	—	—
Power plant operators	4 580	106	8	39	4 031	76	1	431	21	7
Stationary engineers	109	37	—	—	47	19	—	9	—	—
Miscellaneous plant and system operators	268 544	146 443	2 062	10 579	31 674	17 361	1 073	205 893	119 671	205
Operators, fabricators, and laborers	186 838	132 826	739	1 274	19 498	15 251	2 249	165 971	110 382	1 808
Machine operators, assemblers, and inspectors	186 838	132 826	739	1 274	19 498	15 251	2 249	165 971	110 382	1 808
Machine operators and tenders, except precision	186 120	125 402	481	1 062	18 598	14 798	1 971	159 433	104 504	1 059
Metalworking and plastic-working machine operators	202	52	19	19	33	2	7	75	18	952
Lathe and turning machine set-up operators	33	—	—	—	15	—	—	10	8	8
Lathe and turning machine operators	33	8	—	—	—	—	—	9	—	—
Milling and planing machine operators	53	31	19	19	9	2	—	25	10	—
Punching and stamping press machine operators	8	8	—	—	—	—	—	—	—	8
Rolling machine operators	—	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	49	51	—	—	2	—	7	14	—	—
Grinding, abrading, buffing, and polishing machine operators	17	—	—	—	—	—	—	17	—	—
Forging machine operators	—	—	—	—	—	—	—	—	—	—
Numerical control machine operators	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	39	36	4	4	11	8	—	13	13	—
Metal and plastic processing machine operators	1 257	1 125	455	467	94	50	367	267	208	5
Molding and casting machine operators	391	271	—	—	94	50	—	262	203	5
Metal plating machine operators	860	848	455	467	—	—	366	—	—	5
Heat treating equipment operators	1	1	—	—	—	—	1	—	—	—
Miscellaneous metal and plastic processing machine operators	5	5	—	—	—	—	—	5	5	—
Woodworking machine operators	173	51	7	57	32	7	6	61	31	—
Wood kitting, routing, and planing machine operators	6	37	—	7	6	—	6	40	31	—
Sawing machine operators	6	—	—	—	—	—	—	6	—	—
Shaping and planing machine operators	6	—	—	—	—	—	—	—	—	—
Nailing and tacking machine operators	99	14	7	50	17	7	17	15	—	—
Miscellaneous woodworking machine operators	957	589	6	26	52	9	13	127	121	29
Printing machine operators	488	249	—	20	43	5	13	86	80	7
Photoengravers and lithographers	329	200	—	6	5	—	13	—	—	—
Typesetters and compositors	79	79	6	6	—	—	—	—	—	—
Miscellaneous printing machine operators	61	61	115	143	4	4	—	37	37	22
Textile, apparel, and furnishings machine operators	174 350	117 806	—	—	14 295	8	186	155 860	102 238	473
Winding and twisting machine operators	48	39	—	—	8	—	—	34	25	16
Knitting, looping, taping, and weaving machine operators	9	2	—	—	—	—	—	9	2	—
Textile cutting machine operators	17	17	—	—	—	—	—	12	12	—
Textile sewing machine operators	10 803	10 465	74	93	514	500	18	9 827	9 558	30
Shoe machine operators	182	105	—	—	—	—	—	61	58	6
Pressing machine operators	54 088	43 273	41	41	539	417	42	53 047	42 513	18
Laundering and dry cleaning machine operators	108 935	63 781	—	—	13 321	8	219	92 656	49 964	164
Miscellaneous textile machine operators	268	124	9	9	14	—	—	214	106	6
Machine operators, assorted materials	11 142	5 743	75	336	1 949	487	282	3 030	1 875	177
Cementing and gluing machine operators	68	42	19	19	6	—	7	40	36	244
Packaging and filling machine operators	95	68	12	12	6	—	—	57	36	12
Extruding and forming machine operators	119	24	6	6	—	—	—	62	86	4
Mixing and blending machine operators	182	112	—	—	21	11	2	112	7	15
Separating, filtering, and clarifying machine operators	119	64	—	—	4	3	—	83	23	—
Compressing and compacting machine operators	329	17	2	63	202	—	19	26	6	—
Peening and paint spraying machine operators	28	6	—	—	22	—	—	6	—	—
Roasting and baking machine operators, food	153	107	—	—	94	83	—	45	17	7

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Personal services											
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
155	130	—	—	17	17	—	—	133	113	—	—
364	25	15	—	147	—	6	—	189	25	—	—
37	16	—	—	—	—	33	—	15	83	—	—
366	227	11	2	43	46	—	—	102	—	30	30
12	11	—	—	6	5	—	—	—	—	—	—
4,673	2,863	13	—	43	36	5	—	124	106	5	5
1,472	753	42	33	237	75	101	15	792	464	50	37
2,970	1,278	155	26	1,081	211	109	13	1,244	855	100	66
2,478	1,258	202	58	404	60	224	52	1,105	841	66	66
492	24	68	5	154	7	86	—	98	12	—	—
57	25	—	—	22	5	—	—	35	26	—	—
1,646	1,081	81	25	133	27	135	52	903	763	66	66
36	10	5	7	8	4	3	—	14	—	—	—
62	31	7	7	7	8	—	—	24	24	—	—
96	51	14	13	35	8	—	—	14	14	—	—
—	—	—	—	—	—	—	—	—	—	—	—
9	9	—	—	9	9	—	—	—	—	—	—
78	27	27	8	16	—	—	—	17	8	—	—
6,240	5,666	20	—	496	393	54	48	5,433	5,037	41	41
5,955	5,449	7	—	457	363	13	13	5,319	4,941	26	26
22	17	—	—	5	5	—	—	5	6	7	7
10	10	—	—	4	4	—	—	6	—	—	—
253	190	13	—	30	21	41	35	103	90	8	8
42,304	2,947	2,933	513	6,184	629	580	76	27,792	1,322	285	25
40,876	2,797	2,586	502	5,664	594	494	76	27,441	1,223	256	25
1,693	27	—	—	150	—	2	—	1,501	21	—	—
5,425	440	408	101	821	97	285	45	1,501	149	112	7
13,541	972	137	24	623	181	30	—	3,304	638	46	9
11,022	454	48	24	170	2	42	—	11,933	402	48	9
762	164	38	33	562	96	81	31	10,448	—	—	—
6,099	625	1,923	320	1,387	116	28	—	142	13	12	—
2,374	115	32	—	1,933	102	21	—	59	18	—	—
30	—	—	—	18	—	5	—	7	—	—	—
26	—	8	—	18	—	—	—	—	—	—	—
18	—	—	—	18	—	—	—	—	—	—	—
8	—	8	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
319	32	196	11	82	8	—	—	35	13	6	—
200	26	149	5	46	8	—	—	13	13	—	—
56	6	27	6	29	—	—	—	—	—	—	—
33	—	—	—	5	—	—	—	22	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
1,083	118	143	—	400	27	86	—	296	86	24	—
19	9	2	—	103	5	11	—	12	4	6	—
185	—	—	—	—	—	—	—	57	—	—	—
67	2	52	—	9	—	—	—	6	2	—	—
30	7	7	—	12	—	—	—	11	7	—	—
124	18	18	—	23	—	24	—	7	—	3	—
64	—	—	—	17	—	24	—	—	—	—	—
295	1	43	—	130	1	21	—	—	—	2	—
299	99	12	—	101	21	6	—	135	73	13	—

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.

Folding machine operators
Punches, file, and oval operators, except food
Casting and grinding machine operators
Slicing and cutting machine operators
Motion picture projectionists
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified

Fabricators, assemblers, and hand working occupations
Welders and cutters
Solders and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural

Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.

Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad track, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders

Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Handlers, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.															
Helpers, mechanics and repairers															
Helpers, construction and extractive occupations															
Helpers, construction trades															
Helpers, surveyor															
Helpers, extractive occupations															
Construction laborers															
Production helpers															
Freight, stock, and material handlers															
Garbage collectors															
Sweepers															
Stock handlers and loaders															
Machine feeders and offhoones															
Freight, stock, and material handlers, n.e.c.															
Grape and service station related occupations															
Vehicle washers and equipment cleaners															
Hand packers and packagers															
Laborers, except construction															
Total															
Total		Female		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
29 422	11 370	6 372	810	5 992	1 481	1 556	276	12 130	7 967	463	282	50	10		
144	49	—	—	57	29	9	2	60	16	—	—	—	—		
146	12	44	—	48	4	24	—	24	8	—	—	—	—		
264	9	45	—	165	9	8	—	21	—	—	—	—	—		
264	9	65	—	165	9	8	—	21	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1 101	60	343	18	369	16	199	7	75	19	30	—	—	—		
1 077	713	—	—	192	126	46	14	789	539	6	6	10	10		
2 950	695	293	11	1 009	60	113	5	1 267	503	95	48	—	—		
213	7	56	—	82	7	44	—	14	—	7	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
709	302	18	—	285	39	15	—	241	181	60	20	—	—		
289	221	10	6	6	6	5	—	251	194	9	9	—	—		
1 739	165	209	5	636	8	49	5	761	128	19	19	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
336	91	15	9	233	42	28	7	27	15	18	18	—	—		
1 554	733	86	12	325	146	25	9	979	526	58	40	—	—		
2 192	83	—	—	93	60	—	—	2 224	1 928	58	45	19	—		
19 190	6 816	5 443	725	3 501	989	1 104	232	6 714	4 413	198	125	21	—		

(Data are estimates based on a sample; see introduction, for meaning of symbols, see appendixes 1-3)

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offloaders
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: For definitions of terms, see appendix A.]
 [Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction.]

Personal services—Con.

United States

	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	74 007	19 998	19 332	3 558	24 849	23 104	138 827	83 955	1 007 070	407 324	331 860	172 294	82 576	36 035
Managerial and professional specialty occupations	43 100	4 891	647	184	466	306	64 871	30 620	392 232	134 326	185 064	53 415	13 519	4 007
Executive, administrative, and managerial occupations	41 880	4 115	620	175	279	162	17 219	9 421	149 870	48 601	47 757	16 396	11 784	3 037
Legislators, chief executives, and general administrators; public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	—	—	—	—	—	—	32	26	38	—	755	212	7	20
Financial managers	80	32	—	—	—	—	218	69	1 732	585	813	336	65	51
Personnel and labor relations managers	117	31	5	5	13	6	404	250	2 180	821	1 626	442	189	22
Purchasing managers	—	—	—	—	—	—	36	24	302	90	1 185	51	104	—
Managers, marketing, advertising, and public relations	33	—	—	—	—	—	1 596	897	3 148	911	1 626	402	6	—
Administrators, education and related fields	—	—	—	—	—	—	50	36	209	86	48	20	17	8
Managers, medicine and health	—	—	—	—	—	—	—	—	386	55	168	8	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	17	—	—	—	—	—	62	17	27	13	6	—	—	—
Funeral directors	37 592	3 050	28	5	196	137	13 434	7 362	125 853	39 536	35 309	11 757	11 067	2 788
Managers and administrators, n.e.c.	3 723	878	536	134	163	28	10 908	5 977	111 035	35 485	31 623	10 779	8 514	2 238
Managers and administrators, n.e.c.	3 231	707	286	76	133	109	2 526	1 365	14 818	4 051	3 686	978	2 553	550
Self-employed	494	171	250	58	133	19	1 357	740	15 995	6 504	8 847	3 570	329	148
Management related occupations	309	124	36	30	33	13	387	191	5 434	2 662	2 260	1 089	96	36
Accountants and auditors	212	110	12	6	7	2	97	47	349	143	206	71	8	8
Underwriters	18	—	—	—	—	—	291	223	356	136	214	329	129	49
Other financial officers	7	—	10	7	11	—	429	205	2 564	959	743	—	—	—
Management analysts	60	14	7	—	—	—	—	—	—	—	—	—	—	—
Personnel, training, and labor relations specialists	—	—	—	—	—	—	87	27	1 330	414	574	123	25	6
Purchasing agents and buyers, farm products	—	—	7	7	—	—	41	28	5 637	2 138	4 792	1 903	69	47
Buyers, wholesale and retail trade except farm products	—	—	—	—	4	4	—	—	6	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	—	—	—	—	—	—	11	5	180	55	15	—	2	—
Construction inspectors	—	—	—	—	—	—	14	14	130	28	43	3	—	—
Inspectors and compliance officers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations, n.e.c.	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Professional specialty occupations	1 220	776	27	9	187	144	47 652	21 199	242 362	85 725	137 307	37 019	1 735	970
Engineers, architects, and surveyors	—	—	3	3	14	—	103	14	2 908	140	1 981	63	41	—
Engineers	—	—	—	—	—	—	—	—	164	28	37	63	41	—
Architects	—	—	3	3	—	—	103	14	2 719	106	1 938	—	—	—
Engineers, n.e.c.	—	—	—	—	—	—	—	—	16	—	—	—	—	—
Aerospace engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chemical engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nuclear engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mechanical engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Operations and systems researchers and analysts	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Scholars	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Data are estimates based on a sample: see Introduction. For definitions of terms, see appendix A]

[illegible]

Persons by Detailed Industry and Sex: 1960-1969

Table 4. Detailed Occupancy

United States

United States	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations	16 677	11 203	1 859	1 501	274	183	34 393	27 276	183 486	129 869	70 070	49 677	10 465	7 573
Technicians and related support occupations	3 449	182	4	4	5	—	1 674	1 038	8 950	1 620	6 616	1 033	87	41
Health technicians and technicians	88	18	—	—	—	—	426	365	327	177	47	19	2	2
Clinical laboratory technicians and technicians	11	5	—	—	—	—	16	16	65	35	18	8	—	—
Dental hygienists	—	—	—	—	—	—	—	—	35	20	2	—	—	—
Health record technicians and technicians	5	—	—	—	—	—	—	—	40	22	6	—	6	6
Radiologic technicians	72	13	—	—	—	—	350	340	102	62	21	6	—	—
Licensed practical nurses	—	—	—	—	—	—	60	9	63	17	—	—	—	—
Health technicians and technicians, n.e.c.	—	—	—	—	—	—	476	155	3 758	467	2 783	349	11	—
Engineering and related technicians and technicians	—	—	—	—	—	—	159	47	2 634	252	1 985	210	9	—
Electrical and electronic technicians	—	—	—	—	—	—	6	88	26	81	593	62	2	—
Industrial engineering technicians	—	—	—	—	—	—	270	7	330	122	192	77	—	—
Mechanical engineering technicians	—	—	—	—	—	—	19	11	55	—	—	—	—	—
Engineering technicians, n.e.c.	—	—	—	—	—	—	61	26	125	47	89	32	7	7
Drafting occupations	—	—	—	—	—	—	23	9	33	14	33	25	—	—
Surveying and mapping technicians	—	—	—	—	—	—	29	17	66	33	49	633	35	—
Science technicians	3	3	—	—	5	—	711	492	4 740	922	3 697	—	—	—
Biological technicians	3	3	—	—	—	—	—	—	143	2	23	—	—	—
Chemical technicians	3 358	161	4	4	—	—	7	—	1 737	153	1 525	128	6	14
Science technicians, n.e.c.	—	—	—	—	—	—	16	24	496	213	292	115	33	—
Technicians, except health, engineering, and science	—	—	—	—	—	—	37	9	21	11	19	9	—	—
Airplane pilots and navigators	18	2	—	—	—	—	136	119	166	141	1 704	115	16	6
Air traffic controllers	21	8	—	—	—	—	506	349	2 157	409	32 449	266	—	—
Broadcast equipment operators	—	—	—	—	—	—	7 223	7	79 315	52 412	853	24 460	4 545	2 811
Computer programmers	—	—	—	—	—	—	960	7	3 006	403	804	277	194	41
Tool programmers, numerical control	—	—	—	—	—	—	807	353	2 604	907	804	264	24	24
Legal assistants	—	—	—	—	—	—	153	63	402	136	11 857	7 783	119	17
Technicians, n.e.c.	3 319	151	4	4	101	76	77	61	12 089	7 907	—	—	75	—
Sales occupations	681	213	1 369	1 043	8	8	8	—	—	—	—	—	6	—
Supervisors and proprietors, sales occupations	28	14	101	34	—	—	—	—	—	—	—	—	—	—
Salaried	17	5	55	19	8	8	—	—	—	—	—	—	—	—
Self-employed	11	9	46	15	—	—	—	—	—	—	—	—	—	—
Supervisors and proprietors, other business services	18	10	—	—	—	—	—	—	102	27	37	7	—	—
Sales representatives, finance and business services	—	—	—	—	—	—	8	—	—	—	—	—	—	—
Insurance sales occupations	—	—	—	—	—	—	69	—	513	200	346	96	6	—
Real estate sales occupations	—	—	—	—	—	—	—	—	11 474	7 680	11 474	7 680	—	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations, other business services	—	—	—	—	—	—	12	—	14	—	7	—	—	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	68	6 635	64 141	43 437	19 714	16 398	4 345	2 774
Sales workers, retail and personal services	635	189	1 252	1 000	86	68	10 546	4 749	13 395	7 253	17	82	995	597
Sales workers, commodities	518	102	818	610	80	62	8 205	131	39 596	260	117	17	153	87
Sales counter clerks	36	17	420	390	6	—	275	643	49 154	35 035	19 189	16 007	3 019	1 912
Cashiers	11	70	—	—	—	—	1 366	1 252	998	743	391	—	172	6
Street and door-to-door sales workers	—	—	—	—	—	—	56	125	65	25	18	2	—	—
News vendors	—	—	16	9	7	—	172	35	59	19	18	—	—	—
Sales related occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Demonstrators, promoters and models, sales	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	12 547	10 808	486	454	168	107	20 952	19 015	95 221	75 837	31 005	24 184	5 893	4 717
Supervisors, administrative support occupations	136	103	—	—	—	—	732	732	4 757	2 547	1 955	1 083	139	93
Supervisors, general office	110	77	6	6	8	—	541	445	3 191	2 965	1 080	772	113	67
Supervisors, computer equipment operators	26	26	—	—	—	—	106	92	755	409	363	217	17	17
Supervisors, financial records processing	—	—	—	—	—	—	—	—	31	31	12	—	—	—
Chief communications operators	—	—	—	—	—	—	85	—	651	31	447	82	9	9
Supervisors; distribution, scheduling, and adjusting clerks	—	—	—	—	—	—	232	175	1 214	711	515	300	71	47
Computer equipment operators	74	49	7	7	7	—	208	151	1 214	649	479	289	58	13
Peripheral equipment operators	72	47	—	—	—	—	24	24	86	42	36	11	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Personal services—Con.						Entertainment and recreation services					
	Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Funeral service and crematories												
Technical, sales, and administrative support occupations—Con.												
Administrative support occupations, including clerical—Con.												
Secretaries, stenographers, and typists	5 576	5 414	56	56	4 350	4 300	29 179	28 270	11 182	10 899	1 084	1 041
Secretaries	5 382	5 230	49	49	3 793	3 743	26 103	25 384	10 212	9 964	999	956
Stenographers	23	23	7	7	13	13	26	26	77	84	—	—
Typists	171	161	7	7	554	554	2 850	2 680	873	791	85	85
Information clerks	2 951	2 348	26	26	4 562	4 437	10 162	8 764	1 934	1 600	253	199
Interviewers	12	12	—	—	46	32	139	126	76	53	—	—
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	—	—	—	—	—	—	—	—	—	—	—	—
Receptionists	2 343	2 007	19	19	21	21	1 164	795	424	236	—	—
Information clerks, n.e.c.	596	329	7	7	4 265	4 124	8 727	7 320	1 775	1 175	222	172
Records processing occupations, except financial	86	75	14	14	239	220	233	202	31	136	31	27
Classified clerks	—	—	—	—	779	643	1 918	1 229	795	398	154	134
Correspondence clerks	—	—	—	—	10	10	73	31	47	17	7	7
Order clerks	36	25	14	14	6	6	48	36	31	19	5	5
Personal clerks, except payroll and timekeeping	23	23	—	—	323	277	768	434	343	162	64	44
Library clerks	—	—	—	—	33	33	173	144	37	25	8	8
File clerks	—	—	—	—	—	—	114	67	75	28	—	—
Records clerks	27	27	—	—	322	293	599	450	224	141	66	66
Financial records processing occupations	—	—	—	—	35	22	143	67	38	6	4	4
Bookkeepers, accounting, and auditing clerks	1 829	1 607	137	137	2 561	2 422	18 050	16 024	4 841	4 170	1 767	1 528
Payroll and timekeeping clerks	1 800	1 578	131	131	2 299	2 176	16 303	14 689	4 212	3 698	1 723	1 587
Billing clerks	18	18	—	—	145	129	790	704	325	241	39	34
Cost and rate clerks	11	11	6	6	106	106	407	381	216	196	—	—
Billing, posting, and calculating machine operators	—	—	—	—	11	11	112	83	74	29	5	5
Duplicating machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Duplicating machine operators	—	—	—	—	41	25	411	158	161	52	—	—
Mail preparing and paper handling machine operators	—	—	—	—	2	2	111	40	102	31	—	—
Office machine operators, n.e.c.	—	—	—	—	6	6	27	8	8	8	—	—
Communications equipment operators	129	85	2	2	310	292	1 643	1 508	302	274	7	7
Telephone operators	129	85	2	2	310	292	1 632	1 489	302	274	7	7
Telegraphers	—	—	—	—	—	—	20	11	—	—	—	—
Communications equipment operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Mail and message distributing occupations	118	15	13	6	406	182	1 622	349	713	199	185	10
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	19	13	—	—	188	122	628	192	329	113	—	—
Mail clerks, except postal service	99	2	6	6	218	60	994	157	384	86	22	10
Messengers	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	143	72	19	6	1 411	1 010	6 565	3 028	3 280	1 601	573	374
Dispatchers	40	27	8	8	13	6	226	61	6	—	—	—
Production coordinators	43	22	—	—	159	145	2 629	1 527	2 044	1 232	34	19
Traffic, shipping, and receiving clerks	18	18	5	5	115	115	1 075	241	649	150	2	2
Stock and inventory clerks	40	21	15	15	212	79	1 540	450	384	122	65	7
Meat readers	—	—	—	—	—	—	—	—	—	—	—	—
Meat readers, measurers, and checkers	—	—	—	—	666	642	567	372	50	35	295	206
Samplers	—	—	—	—	—	—	3	3	—	—	—	—
Expeditioners	2	2	—	—	35	29	429	283	111	46	177	142
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	81	53	7	7	8	—	96	91	16	16	—	—
Insurance adjusters, examiners, and investigators	—	—	13	13	415	337	1 459	590	546	303	69	12
Investigators and adjusters, except insurance	18	6	6	6	218	171	939	433	486	260	47	12
Eligibility clerks, social welfare	12	12	—	—	5	5	15	15	—	—	—	—
Bill and account collectors	51	35	7	7	192	161	505	142	60	43	22	—
Miscellaneous administrative support occupations	1 424	987	208	196	5 203	4 616	18 221	12 659	4 781	3 365	1 531	1 173
General office clerks	1 351	927	208	196	4 133	3 666	12 630	8 825	2 987	2 207	994	706
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders	—	—	—	—	51	46	38	15	24	6	—	—
Data-entry keyers	22	22	—	—	286	286	895	782	388	362	25	25
Statistical clerks	28	28	—	—	246	240	607	405	283	169	66	57
Teachers' aides	—	—	—	—	72	72	22	22	—	—	—	—
Administrative support occupations, n.e.c.	23	8	—	—	465	356	4 005	2 597	1 119	619	446	385

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Personal services—Con.									
Funeral service and crematories			Shoe repair shops			Dressmaking shops			Total
Total	Female	Male	Total	Female	Male	Total	Female	Male	
8 995	3 687	1 084	193	52	26 622	20 211	128 342	39 540	
Private household occupations	—	—	—	—	—	—	—	—	—
Funeral service occupations	—	—	—	—	—	—	—	—	—
Protective service occupations	171	—	—	—	494	123	4 765	1 710	23 971
Supervisors, protective service occupations	7	—	—	—	—	—	13	54	45
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—
Supervisors, guards	7	—	—	—	—	—	13	54	8
Firefighting and fire prevention occupations	—	—	—	—	4	4	84	29	12
Fire inspection and fire prevention occupations	—	—	—	—	4	4	72	14	7
Firefighting occupations	—	—	—	—	—	—	12	15	5
Police and detectives	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—
Guards	164	—	—	—	490	119	4 668	1 627	215
Crossing guards	—	—	—	—	5	5	42	2	45
Guards and police, except public service	159	—	—	—	213	11	1 110	1 528	160
Protective service occupations, n.e.c.	5	—	—	—	272	103	3 534	97	55
Service occupations, except protective and household	8 824	3 687	1 084	193	26 128	20 088	123 577	37 830	46 241
Food preparation and service occupations	96	46	55	24	772	412	64 380	7 088	16 620
Supervisors, food preparation and service occupations	30	22	—	6	52	45	1 948	235	130
Bartenders	18	9	6	2	91	45	18 173	7 426	1 890
Waiters and waitresses	20	3	11	2	240	120	39 390	2 100	4 650
Cooks, except short order	—	—	—	—	114	57	9 862	996	2 633
Short-order cooks	—	—	—	—	—	—	130	61	6 344
Food counter, fountain and related occupations	6	6	6	2	—	—	754	44	2 387
Kitchen workers, food preparation	—	—	—	—	63	48	4 198	1 724	505
Waiters' and waitresses' assistants	16	6	6	14	12	12	1 740	105	917
Miscellaneous food preparation occupations	6	6	—	—	56	13	1 816	332	71
Health service occupations	146	47	8	8	144	72	10 055	3 657	484
Dental assistants	92	11	—	—	2 164	1 992	905	665	393
Nursing aides, orderlies, and attendants	34	36	—	—	5	5	83	47	15
Cleaning and building service occupations, except household	4 173	1 977	107	8	2 020	1 876	242	156	13
Supervisors, cleaning and building service workers	36	11	8	—	3 053	1 301	580	426	20
Aids and housemen	1 926	1 282	27	8	960	770	1 838	946	8 791
Janitors and cleaners	2 211	684	72	5	1 976	713	4 017	1 640	89
Elevator operators	—	—	—	—	26	12	8 215	8 123	1 454
Pest control occupations	—	—	—	—	5	5	212	39	7 246
Personal service occupations	4 409	1 617	914	140	20 139	16 382	45 883	21 191	—
Supervisors, personal service occupations	23	13	6	36	1 801	992	9 505	2 298	6 809
Barbers	121	30	143	12	102	14	127	63	163
Hairstylists and cosmetologists	432	366	56	30	4 138	3 973	887	698	19
Attendants, amusement and recreation facilities	16	—	—	—	284	228	55 952	2 862	373
Guides	15	—	—	—	220	137	2 096	271	9 013
Ushers	—	—	—	—	22	15	16 978	4 577	3 325
Public transportation attendants	—	—	—	—	—	—	—	—	42
Baggage porters and bellhops	13	8	—	—	78	18	261	17	—
Welfare service aides	84	82	—	—	2 643	2 589	9 016	285	244
Child care workers, except private household	3 705	1 118	709	43	10 851	8 416	11 828	2 519	1 826
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	607	37	—	—	224	120	43 830	4 126	39
Farm operators and managers	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—
Related agricultural occupations	607	37	—	—	181	99	42 322	4 015	237
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	—	—	—	—	—	—	—	—	—
Animal caretakers, except farm	607	37	—	—	79	3	32 045	1 726	22
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	102	96	6 588	2 236	203
Inspectors, agricultural products	—	—	—	—	—	—	—	—	12
Entertainment and recreation services	—	—	—	—	—	—	—	—	—
Theaters and motion pictures	—	—	—	—	—	—	—	—	—
Bowling alleys, billiard and pool parlors	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States

Personal services—Con.

	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.														
Forestry and logging occupations														
Supervisors, forestry and logging workers														
Trainers, forestry and logging occupations														
Fisheries occupations														
Supervisors, fisheries and inspectors														
Captains and other officers, fishing vessels														
Fishers														
Hunters and trappers														
Precision production, craft, and repair occupations														
Mechanics and repairers, except supervisors	504	20	15 426	1 560	23 821	22 396	2 388	850	43 864	3 195	10 186	1 296	10 437	153
Supervisors, mechanics and repairers	181	1	207	17	30	14	714	41	25 102	541	2 651	178	9 818	93
Mechanics and repairers, except supervisors	181	1	28	17	30	14	37	36	24 405	530	2 544	178	9 749	86
Vehicle and mobile equipment mechanics and repairers	101	1	179	17	6	6	11	2	3 037	27	171	6	216	168
Automobile mechanics	85	1					2	2	1 796	25	119	6	168	17
Bus, truck, and stationary engine mechanics									212		3			
Aircraft engine mechanics									516		6		9	5
Small engine repairers									59		10		5	
Automobile body and related repairers									17		17		10	
Aircraft mechanics, except engine									263		10			
Heavy equipment mechanics	14								50		6		5	
Farm equipment mechanics	2								3 884	76	274		1 511	28
Industrial machinery repairers	5		16		7	7	189		130	5	5		47	5
Machinery maintenance occupations	7		2				32	7	1 772	156	1 277	138	26	
Electrical and electronic equipment repairers														
Electronic communications and industrial equipment														
Radio, television, and communication equipment repairers														
Power tool repairers														
Household appliances and power tool repairers														
Telephone linemen and repairers														
Telephone installers and repairers														
Miscellaneous electrical and electronic equipment repairers	7						11	5	554	67	394	60	6	
Heating, air conditioning, and refrigeration mechanics														
Miscellaneous mechanics and repairers	17		161	17	17	7	18		160	266	64		7	
Camera, watch, and musical instrument repairers	51						406	27	15 422	13	753	34	7 942	55
Locksmiths and safe repairers					10		45	5	310	13	132	6	7	
Office machine repairers							6		58		9		26	
Mechanical controls and valve repairers	6						8		18				5	
Refrigerator installers and repairers									31	18				
Refrigeration mechanics and repairers, n.e.c.							148	8	93				31	
Specialized mechanics and repairers, n.e.c.	6		71	13	7	7	199	14	11 962	195	301	15	7 210	48
Not specified mechanics and repairers	39		90	4			265	20	2 910	40	298	13	663	
Construction trades														
Supervisors, construction occupations	160	8	5		17		13		11 098	628	4 745	352	238	5
Supervisors, bricklayers, stonemasons, and tile setters	6								1 134	44	459	7	27	5
Supervisors, carpenters and related workers									146	4	65			
Supervisors, electricians and power transmission installers									110		68			
Supervisors, plumbers, paperhangers, and plasterers									7					
Supervisors, painters, paperfitters, and steamfitters									29		29			
Supervisors, fitters, pipefitters, and steamfitters	6						13		842	40	297	7	27	5
Supervisors, fitters, pipefitters, and steamfitters, n.e.c.														
Construction trades, except supervisors														
Bricklayers and stonemasons	154	8	5		17		252	20	9 944	584	4 286	345	211	
Tile setters, hard and soft	24						5		97				7	
Carpet installers														
Carpenters	52						115	6	4 823	242	25		182	66
Drywall installers									17		5			
Electricians									2 061	102	1 045	77	65	
Electrical power installers and repairers	11						67	8	31	12	19		79	17
Painters, construction and maintenance									1 366	215	597			
Paperhangers	57		5				27	6	21					

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Employed Persons by Detailed Industry and Sex: For definitions of terms, see appendix A]

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Personal services—Con.				Entertainment and recreation services									
	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States														
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Precision production occupations—Con.														
Plant and system operators	4	—	48	9	—	—	37	—	711	13	199	—	7	—
Water and sewage treatment plant operators	—	—	—	—	—	—	—	—	25	—	—	—	—	—
Power plant operators	4	—	—	—	—	—	32	—	642	6	194	—	7	—
Stationary engineers	—	—	48	9	—	—	5	—	38	7	5	—	—	—
Miscellaneous plant and system operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Operators, fabricators, and laborers	4 124	160	336	120	231	167	10 329	4 878	48 927	7 466	26 480	3 412	1 442	272
Machine operators, assemblers, and inspectors	135	90	222	90	219	167	7 049	4 093	22 377	3 747	17 666	2 424	339	60
Machine operators and tenders, except precision	89	30	177	72	196	167	6 542	3 808	20 639	3 272	16 837	2 149	306	51
Machine operators and plastic working machine operators	8	—	—	—	—	—	26	—	167	54	25	11	19	16
Metalworking and plastic working machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lathe and turning machine operators	8	—	—	—	—	—	—	—	8	16	—	—	16	—
Milling and planing machine operators	—	—	—	—	—	—	—	—	12	6	—	6	—	—
Punching and stamping press machine operators	—	—	—	—	—	—	—	—	7	—	7	—	—	—
Rolling machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	—	—	—	—	—	—	26	—	117	26	5	5	3	—
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	—	—	7	—	—	—	—	—
Forging machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Numerical control machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metal and plastic processing machine operators	—	—	2	2	—	—	9	9	22	21	48	5	10	10
Molding and casting machine operators	—	—	—	—	—	—	57	40	77	11	31	5	—	—
Metal plating machine operators	—	—	—	—	—	—	35	18	44	10	17	—	10	—
Heat treating equipment operators	—	—	—	—	—	—	22	22	27	—	—	—	—	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	6	15	51	3	—	—
Woodworking machine operators	—	—	—	—	—	—	—	—	96	—	—	—	—	—
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	—	—	9	9	—	—	—	—
Sawing machine operators	—	—	—	—	—	—	—	—	6	6	3	—	—	—
Shaping and joining machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nailing and tacking machine operators	—	—	—	—	—	—	—	—	81	—	48	—	—	—
Miscellaneous woodworking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Printing machine operators	15	8	—	—	8	8	687	395	274	56	176	27	—	—
Photoengravers and lithographers	15	8	—	—	1	1	310	147	191	37	110	18	—	—
Typesetters and compositors	—	—	—	—	7	7	310	181	33	4	37	9	—	—
Miscellaneous printing machine operators	—	—	—	—	—	—	47	47	43	15	—	—	—	—
Textile, apparel, and furnishings machine operators	—	—	—	—	—	—	20	20	7	—	—	99	—	—
Winding and twisting machine operators	32	8	148	53	136	131	669	355	746	556	121	—	—	—
Knitting, looping, tufting, and weaving machine operators	—	—	—	—	—	—	6	6	2	—	—	—	—	—
Textile cutting machine operators	—	—	—	—	—	—	—	—	11	2	—	—	—	—
Textile sewing machine operators	—	—	—	—	136	131	159	128	176	165	95	88	—	—
Shoe machine operators	8	8	19	14	—	—	175	105	28	10	11	5	—	—
Pressing machine operators	24	—	—	—	—	—	288	96	493	359	6	6	—	—
Laundering and dry cleaning machine operators	—	—	—	—	—	—	31	10	32	—	9	—	—	—
Miscellaneous textile machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Machine operators, assorted materials	34	14	27	17	52	28	5 094	3 009	19 257	2 590	16 416	2 004	277	25
Cementing and gluing machine operators	—	—	—	—	—	—	2	2	52	17	47	17	—	—
Packaging and filling machine operators	—	—	—	—	—	—	8	8	—	—	—	—	—	—
Extruding and forming machine operators	—	—	—	—	—	—	14	14	5	10	2	2	—	—
Mixing and blending machine operators	—	—	—	—	—	—	35	15	12	26	9	10	—	—
Separating, filtering, and clarifying machine operators	—	—	—	—	—	—	25	9	37	30	17	12	8	—
Compressing and compacting machine operators	—	—	—	—	—	—	9	—	177	18	63	10	—	—
Painting and bolting machine operators	—	—	—	—	—	—	13	—	—	—	—	—	—	—
Roasting and baking machine operators, food	6	6	—	—	—	—	—	—	—	—	—	—	—	—
Washing, cleaning, and picking machine operators	—	—	7	7	—	—	—	—	9	6	—	—	6	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Personal services—Con.										Entertainment and recreation services			
Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Operators, fabricators, and laborers—Con.													
Machine operators, assemblers, and inspectors—Con.													
Machine operators and tenders, except precision—Con.													
Machine operators, assorted materials—Con.													
Folding machine operators													
Formica, lin, and oven operators, except food													
Crushing and grinding machine operators													
Slicing and cutting machine operators													
Motion picture projectionists													
Photographic process machine operators													
Miscellaneous machine operators, n.e.c.													
Machine operators, not specified													
Fabricators, assemblers, and hand working occupations													
Welders and cutters													
Soldiers and brazers													
Assemblers													
Hand cutting and trimming occupations													
Hand molding, casting, and forming occupations													
Hand painting, coating and decorating occupations													
Hand engraving and printing occupations													
Hand grinding and polishing occupations													
Miscellaneous hand working occupations													
Production inspectors, testers, samplers, and weighers													
Production inspectors, checkers, and examiners													
Production testers													
Production samplers and weighers													
Graders and sorters, except agricultural													
Transportation and material moving occupations													
Motor vehicle operators													
Supervisors, motor vehicle operators													
Truck drivers, heavy													
Truck drivers, light													
Driver-sales workers													
Bus drivers													
Taxicab drivers and chauffeurs													
Parking lot attendants													
Motor transportation occupations, n.e.c.													
Rail transportation occupations													
Railroad conductors and trainmasters													
Locomotive operating occupations													
Railroad brake, signal, and switch operators													
Rail vehicle operators, n.e.c.													
Water transportation occupations													
Ship captains and mates, except fishing boats													
Sailors and deckhands													
Marine engineers													
Bridge, lock, and lighthouse tenders													
Material moving equipment operators													
Supervisors, material moving equipment operators													
Operating engineers													
Longshore equipment operators													
Hoist and winch operators													
Crane and tower operators													
Excavating and loading machine operators													
Grader, dozer, and scraper operators													
Industrial truck and tractor equipment operators													
Miscellaneous material moving equipment operators													

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Personal services—Con.				Entertainment and recreation services			
	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services	
	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	1 391	40	79	30	12	4	1 377	44
Operators, fabricators, and laborers—Con.								
Handlers, equipment cleaners, helpers, and laborers								
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.								
Helpers, mechanics and repairers								
Helpers, construction and extractive occupations								
Helpers, construction trades								
Helpers, surveyor								
Helpers, extractive occupations								
Construction laborers	47		9				29	
Production helpers	3		5				26	
Freight, stock, and material handlers	24		11	11	3		135	18
Garbage collectors	2						8	
Stenographers	2		11	11			77	
Stock handlers and baggers							8	
Machine feeders and offbearers	20				3		42	
Freight, stock, and material handlers, n.e.c.								
Garage and service station related occupations	9						6	
Vehicle washers and equipment cleaners	96						35	
Hand packers and packagers							183	
Laborers, except construction	1 212	40	54	19	9		934	23
Entertainment and recreation services								
Theaters and motion pictures								
Bowling alleys, billiard and pool parlors								
Total	16 048	2 184						
Entertainment and recreation services								
Theaters and motion pictures	6 210	684						
Bowling alleys, billiard and pool parlors								
Total	887	174						

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Entertainment and recreation services—Cont.		Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total				Total			
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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Professional and related services				Health services			
	Entertainment and recreation services—Con.		Total		Offices of physicians		Offices of dentists	
	Total	Female	Total	Female	Total	Female	Total	Female
Miscellaneous entertainment and recreation services	464	129	72 530	21 089	24 948	10 353	62	20
Amusement and recreation services	23	17	7 869	3 174	3 315	1 110	—	—
Professional specialty occupations—Con.	15	4	1 510	3 199	3 315	1 110	—	—
Natural scientists	—	—	1 905	3 900	269	202	—	—
Physicists and astronomers	—	—	8 146	3 998	350	85	13	5
Chemists, except biochemists	—	—	5 175	1 179	316	144	—	—
Atmospheric and space scientists	—	—	21 098	8 512	8 373	4 156	5	5
Geologists and geodesists	—	—	13 694	5 776	10 889	4 457	25	10
Physical scientists, n.e.c.	—	—	—	—	—	—	19	—
Agricultural and food scientists	—	—	—	—	—	—	—	—
Biological and life scientists	—	—	—	—	—	—	—	—
Forestry and conservation scientists	—	—	—	—	—	—	—	—
Medical scientists	—	—	—	—	—	—	—	—
Health diagnosing occupations	—	—	—	—	—	—	—	—
Physicians	406	57	594 360	67 841	577 163	64 016	114 474	6 234
Dentists	211	42	419 762	54 959	405 676	51 819	112 918	14 143
Veterinarians	66	—	122 536	7 750	121 206	7 499	6 033	14
Optometrists	119	5	2 341	1 556	1 122	2 272	254	38
Podiatrists	—	—	21 586	1 605	21 345	1 574	71	—
Health diagnosing practitioners, n.e.c.	—	—	7 363	2 429	7 283	2 359	13	—
Health assessment and treating occupations	—	—	—	—	—	—	—	—
Registered nurses	924	738	1 490 143	1 358 203	1 379 243	1 254 659	2 762	2 286
Pharmacists	342	342	1 194 941	1 146 935	1 134 662	1 087 831	2 062	1 831
Dietitians	6	—	37 317	14 264	36 483	15 723	147	—
Therapists	177	163	58 538	53 571	51 127	46 673	21	15
Physicians' assistants	379	233	181 069	133 153	139 312	96 375	304	227
Teachers, postsecondary	296	158	618 210	224 249	1 443	782	20	20
Teachers, except postsecondary	49 314	29 781	3 523 197	2 512 938	19 855	15 795	18	12
Teachers, kindergarten and kindergarten	193	190	175 276	169 211	19 855	15 795	7	—
Teachers, elementary and secondary school	—	—	3 134 207	2 011 699	3 854	2 994	—	—
Teachers, special education	327	253	23 324	12 347	15 827	11 573	18	12
Teachers, n.e.c.	48 794	29 358	170 049	94 716	7 821	4 244	55	—
Counselors, educational and vocational	177	101	176 824	144 078	3 020	2 721	24	—
Librarians, archivists, and curators	186	104	166 895	138 547	1 142	115	17	—
Archivists and curators	482	186	9 939	5 531	1 142	115	—	—
Social scientists and urban planners	437	162	95 408	44 477	47 237	22 378	854	37
Economists	288	71	6 177	2 006	4 592	1 541	8	—
Psychologists	37	27	80 780	38 977	45 982	21 762	50	37
Sociologists	99	58	1 252	316	512	13	—	—
Social scientists, n.e.c.	—	—	2 614	2 614	36	—	—	—
Urban planners	6	6	1 466	98	—	—	—	—
Social, recreation, and religious workers	5 637	3 140	631 288	250 354	88 527	43 999	20	4
Social workers	888	556	283 300	190 739	68 655	49 410	13	4
Recreation workers	4 692	2 561	277 481	113 919	12 224	11 431	7	7
Clergy	17	—	277 481	15 583	5 801	1 424	—	—
Religious workers, n.e.c.	40	23	47 893	27 530	1 837	1 444	5	—
Lawyers and judges	100	20	385 898	44 933	341	38	49	8
Lawyers	100	20	385 898	44 933	341	38	49	8
Judges	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	43 888	13 025	244 132	115 872	13 308	8 324	184	74
Authors	77	44	33 734	15 274	17	90	17	16
Technical writers	83	36	8 942	4 177	1 080	686	53	19
Designers and composers	832	293	28 077	7 534	2	2	105	—
Musicians and directors	3 482	945	35 261	20 331	183	108	9	—
Actors and directors	469	156	2 669	880	6	46	—	—
Painters, sculptors, craft-artists, and artist printmakers	630	201	54 062	27 446	1 132	691	18	13
Photographers	444	228	7 178	2 078	1 694	553	52	—
Dancers	2 824	1 951	3 318	20	20	20	—	—
Artists, performers, and related workers, n.e.c.	10 613	3 429	6 804	3 130	601	357	6	6
Editors and reporters	463	236	21 677	13 907	1 171	1 171	7	7
Public relations specialists	2 224	1 078	29 642	17 000	5 834	4 096	33	14
Announcers	993	70	812	231	72	55	—	—
Athletes	20 754	4 358	14 956	3 705	18	14	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sexes 1980—Con.

(Data are estimates based on a sample see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States

Occupation	Miscellaneous entertainment and recreation services—Con.		Total		Total		Offices of physicians		Offices of dentists		Offices of chiropractors		Offices of optometrists	
	Total		Female		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	102 951	72 619	5 010 006	4 263 349	2 168 997	1 936 935	292 034	283 885	110 211	108 514	9 117	8 914	19 122	18 624
Technicians and related support occupations	2 247	144	1 271 881	896 960	906 473	765 393	52 278	50 278	43 712	42 798	469	412	5 480	5 231
Health technicians and technicians	266	144	898 482	765 377	870 473	746 503	54 227	50 443	42 713	42 221	380	338	5 057	4 928
Clinical laboratory technologists and technicians	45	11	229 439	173 016	224 626	169 383	8 095	7 370	41 261	40 803	59	52	33	28
Dental hygienists	35	35	44 746	44 285	43 802	43 360	236	236	13	13	23	23	26	26
Health record technicians and technicians	38	20	13 846	12 843	13 544	12 558	10 630	9 416	427	334	223	193	5	5
Radiologic technicians	16	16	92 956	46 890	92 452	46 576	23 166	22 943	304	291	70	65	69	69
Licensed practical nurses	90	50	397 802	385 703	391 424	379 378	11 530	10 107	504	491	5	5	4 924	4 800
Health technologists and technicians, n.e.c.	42	12	119 693	83 308	104 329	75 318	11 530	10 107	504	491	5	5	4 924	4 800
Engineering and related technicians and technicians	964	118	164 789	35 784	10 328	4 864	773	630	433	465	41	26	159	90
Electrical and electronic technicians	640	42	15 610	2 191	2 949	1 021	45	32	8	8	6	6	—	—
Industrial engineering technicians	32	12	15 456	2 175	2 222	102	—	—	22	15	—	—	—	—
Mechanical engineering technicians	26	—	1 637	198	227	120	5	5	—	—	—	—	—	—
Engineering technicians, n.e.c.	73	19	45 655	18 446	5 649	3 423	624	499	549	410	27	12	98	80
Drafting occupations	138	45	78 547	13 487	974	219	37	32	21	7	4	4	57	6
Surveying and mapping technicians	55	—	22 884	1 287	307	239	62	62	33	33	4	4	4	4
Science technicians	29	8	28 679	12 730	3 390	1 806	346	271	37	28	—	—	9	—
Biological technicians	12	—	4 751	1 963	824	427	—	—	—	—	—	—	—	—
Chemical technicians	17	8	19 104	1 555	679	427	38	32	17	14	—	—	—	—
Science technicians, n.e.c.	988	276	179 931	82 869	22 338	12 220	308	239	20	14	—	—	9	—
Technicians, except health, engineering, and science	120	2	610	60	67	21	13	—	329	184	48	48	255	213
Airplane pilots and navigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Brookside equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer programmers	226	25	2 759	828	259	144	—	—	—	—	—	—	—	—
Tool programmers, numerical control	171	84	35 352	12 127	5 432	2 140	143	85	30	18	—	—	7	—
Loyal assistants	32	26	29 891	22 877	787	619	12	12	6	6	20	20	—	—
Technicians, n.e.c.	437	137	110 624	46 632	15 656	9 224	1 105	837	293	160	28	28	248	213
Sales occupations	42 321	25 137	117 991	82 393	26 904	21 616	1 328	1 008	185	64	58	9	104	57
Supervisors and proprietors, sales occupations	1 959	795	6 988	3 262	1 554	648	68	50	22	6	38	2	22	6
Sales	1 681	419	6 487	3 038	1 501	658	68	50	22	6	18	2	22	6
Self-employed	226	124	9 106	2 305	385	243	214	129	6	—	5	5	4	4
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	65	20	1 372	592	341	228	214	129	—	—	—	—	—	—
Securities and financial services sales occupations	161	104	1 063	402	44	15	—	—	—	—	—	—	—	—
Advertising and related sales occupations	7	—	1 277	19	21	—	—	—	—	—	—	—	—	—
Sales occupations, other business services	7	—	1 277	19	21	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	40 082	24 265	98 902	76 151	24 850	20 659	1 030	829	157	58	15	2	69	48
Sales workers, commodities	12 383	6 826	26 530	14 276	6 115	3 376	346	152	96	22	13	—	58	32
Sales counter clerks	326	89	574	371	238	185	—	—	7	—	—	—	—	—
Cashiers	26 946	17 081	59 155	54 152	17 617	16 502	670	663	49	31	2	2	11	11
Street and door-to-door sales workers	420	269	12 099	7 047	689	458	—	—	5	5	—	—	—	—
News vendors	7	—	12 099	7 047	191	138	14	14	—	—	—	—	—	—
Sales related occupations	47	23	1 638	666	94	46	16	—	—	—	—	—	—	—
Demonstrators, promoters and models, sales	41	17	708	242	29	17	—	—	—	—	—	—	—	—
Auctioneers	—	—	127	12	22	6	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	6	6	803	412	43	23	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	58 383	46 936	3 620 134	2 883 996	1 235 620	1 149 926	234 080	230 599	66 314	65 652	8 590	8 493	13 538	13 306
Supervisors, administrative support occupations	2 663	1 371	114 069	81 595	52 888	42 280	5 959	5 727	1 961	1 922	146	146	188	188
Supervisors, general office	1 998	1 126	83 967	65 165	41 301	34 135	5 447	5 253	1 864	1 837	146	146	170	162
Supervisors, computer equipment operators	76	10	4 000	1 400	1 008	573	21	14	9	9	—	—	—	—
Supervisors, financial records processing	375	175	19 118	11 710	7 756	5 890	454	433	64	59	—	—	—	—
Chief communications operators	19	19	1 032	912	776	743	27	27	7	7	—	—	—	—
Supervisors; distribution, scheduling, and adjusting clerks	195	41	5 952	2 188	2 047	939	10	—	17	10	—	—	—	—
Computer equipment operators	628	364	54 466	36 605	18 534	14 206	1 570	1 457	237	230	5	5	26	26
Computer operators	591	333	52 000	34 840	17 600	13 428	1 444	1 331	183	176	5	5	20	20
Peripheral equipment operators	37	31	2 466	1 765	934	778	126	126	54	54	—	—	6	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services									
	Entertainment and recreation services—Con.					Health services				
	Total	Female	Total	Female	Total	Offices of physicians	Offices of dentists	Offices of chiropractors	Offices of optometrists	
United States										
	Total	Female	Total	Female	Total	Total	Total	Total	Total	Total
Technical, sales, and administrative support occupations—Con.										
Administrative support occupations, excluding clerical—Con.										
Secretaries	16 913	16 390	1 600 752	1 578 287	438 131	433 357	103 823	103 322	16 173	3 564
Stenographers	14 892	14 464	1 396 109	1 379 747	372 496	369 423	96 510	96 407	15 182	3 380
Typists	1 129	1 122	15 782	15 385	6 084	5 969	6 282	6 195	912	13
Information clerks	1 892	1 804	188 861	183 155	59 551	57 965	6 282	6 195	912	171
Interviewers	7 975	6 965	305 975	286 048	212 322	205 802	63 262	62 830	33 764	7 070
Hold clerks	83	73	12 253	10 023	6 056	5 397	234	221	72	—
Transportation ticket and reservation agents	740	559	4 762	2 846	2 205	1 236	95	90	24	8
Recognitionists	6 658	5 973	273 122	261 541	201 178	196 531	62 446	62 032	33 501	7 032
Information clerks, n.e.c.	494	360	11 638	11 638	2 883	2 883	487	487	162	30
Records processing occupations, except financial	969	697	268 460	225 796	84 577	77 020	12 480	12 088	1 287	203
Classified-ad clerks	17	12	1 458	1 271	319	296	22	22	5	2
Correspondence clerks	12	9	9 396	6 543	4 125	2 902	83	72	34	21
Order clerks	361	228	9 112	8 155	4 825	4 562	817	817	106	—
Personnel clerks, except payroll and timekeeping	128	111	133 610	108 722	1 423	1 191	31	31	5	—
Library clerks	39	39	48 070	48 070	25 985	22 353	4 302	4 004	688	157
File clerks	309	243	56 213	52 772	47 664	45 480	7 225	7 142	491	33
Records clerks	101	57	331 680	299 751	116 435	110 038	25 708	25 133	8 463	148
Financial records processing occupations	11 442	9 403	277 603	250 688	87 290	79 815	22 475	21 977	8 148	185
Bookkeepers, accountants, and auditing clerks	10 368	515	19 675	18 802	7 737	7 158	146	146	43	6
Payroll and timekeeping clerks	710	185	27 176	23 252	22 759	21 846	3 010	2 938	272	14
Billing clerks	191	47	5 292	4 625	689	612	59	59	—	—
Cost and rate clerks	75	77	1 934	1 425	401	362	13	13	—	—
Billing, posting, and calculating machine operators	98	106	10 168	7 011	2 401	1 650	50	22	12	—
Duplicating, mail, and other office machine operators	250	9	5 412	3 770	521	382	2	2	5	—
Duplicating machine operators	9	9	2 718	2 718	1 177	1 28	10	—	—	—
Mail receiving and paper handling machine operators	19	97	4 019	2 713	1 703	1 140	38	20	7	—
Office machine operators, n.e.c.	222	97	4 019	2 713	1 703	1 140	38	20	7	—
Communications equipment operators	1 354	1 227	48 919	45 598	30 094	29 911	732	699	27	—
Telephone operators	1 323	1 208	48 656	45 425	30 001	29 131	727	694	27	—
Telegraphers	20	8	145	103	35	43	5	5	—	—
Communications equipment operators, n.e.c.	11	11	70	37	37	37	—	—	—	—
Mail and message distributing occupations	724	140	42 542	20 335	13 410	7 544	422	197	139	38
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—
Mail carriers, except postal service	277	69	26 795	13 862	6 605	3 913	175	100	80	26
Mail clerks, except postal service	447	71	15 747	6 473	6 805	3 631	247	97	59	12
Messengers	2 712	1 053	92 826	50 646	53 137	32 802	555	433	169	32
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—
Dispatchers	220	276	13 153	8 563	4 004	3 018	108	102	67	6
Production coordinators	351	276	10 228	2 958	4 494	1 317	113	64	26	8
Traffic, shipping, and receiving clerks	424	321	55 638	29 452	37 929	22 990	188	135	24	—
Stock and inventory clerks	1 091	—	—	—	—	—	—	—	—	—
Meter readers	222	131	2 005	1 460	347	273	19	19	18	—
Weights, measurers, and checkers	3	3	2 890	2 049	1 176	98	92	17	—	6
Samplers	141	95	2 890	2 049	1 176	98	92	17	—	—
Expeditors	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.	80	75	5 332	4 081	3 994	3 408	49	41	17	12
Adjusters and investigators	844	275	33 573	25 619	11 735	9 898	1 169	1 083	170	61
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	406	161	13 565	9 310	5 503	4 515	532	510	108	43
Eligibility clerks, social welfare	15	15	11 229	9 267	662	4 550	38	38	19	21
Bill and account collectors	423	99	8 779	7 042	5 570	4 683	599	535	36	8
Miscellaneous administrative support occupations	11 909	8 121	716 704	626 705	201 956	186 118	17 608	17 608	3 727	1 051
General office clerks	8 649	5 910	339 239	293 538	130 439	120 672	11 519	11 519	3 116	844
Bank tellers	—	—	—	—	—	—	—	—	—	—
Proofreaders	14	9	2 745	1 950	72	57	12	12	84	11
Data-entry keyers	502	395	43 524	40 429	15 052	14 193	764	704	84	37
Statistical clerks	258	179	27 937	23 904	12 595	11 351	548	523	76	5
Teachers' aides	46	35	202 031	188 001	1 457	1 273	35	35	451	176
Teachers' aides, except vocations, n.e.c.	2 440	1 593	101 228	78 883	42 343	38 572	4 966	4 833	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Professional and related services				Health services				Offices of optometrists			
	Total		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	208 715	89 916	4 076 219	3 007 851	2 278 293	1 837 801	98 069	91 129	144 968	141 420	6 162	5 852
Private household occupations	18 650	4 537	104 566	20 589	33 958	2 760	151	8	7	7	—	—
Protective service occupations	424	13	4 271	333	2 224	97	—	—	7	7	—	—
Supervisors, protective service occupations	42	—	196	6	2 136	6	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	382	13	4 075	327	2 088	91	—	—	—	—	—	—
Supervisors, police and detectives	425	84	1 643	96	606	18	—	—	7	7	—	—
Firefighting and fire prevention occupations	348	72	631	60	148	13	—	—	—	—	—	—
Fire inspection and fire prevention occupations	77	12	1 032	36	458	5	—	—	—	—	—	—
Freighting occupations	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—
Guards	17 801	4 440	98 632	20 160	31 128	2 645	151	8	—	—	—	—
Crossing guards	40	24	1 516	953	13	8	—	—	—	—	—	—
Guards and police, except public service	10 630	963	85 000	12 699	30 932	2 584	151	8	—	—	—	—
Protective service occupations, n.e.c.	7 131	3 453	12 116	6 508	183	53	—	—	—	—	—	—
Food preparation and service occupations	190 065	85 379	3 971 653	2 987 262	2 244 335	1 835 041	97 918	91 121	144 961	141 413	6 162	5 852
Food preparation and service occupations	83 272	46 645	783 041	458 053	254 192	193 326	300	235	166	148	6	6
Bar tenders	4 953	1 660	46 803	37 367	19 967	14 914	12	12	8	—	—	—
Waiters and waitresses	12 343	4 366	11 772	5 199	338	160	2	2	19	21	6	6
Cooks, except short order	30 755	24 926	33 454	29 232	10 129	9 372	40	33	16	16	—	—
Short-order cooks	14 506	6 948	335 094	300 367	102 328	82 379	154	121	21	21	—	—
Food counter, fountain and related occupations	564	291	1 988	1 339	659	508	2	2	—	—	—	—
Kitchen workers, food preparation	2 419	1 920	5 542	4 676	2 059	1 690	14	7	—	—	—	—
Waiters' and waitresses' assistants	2 085	1 609	22 006	19 003	11 351	9 171	14	7	—	—	—	—
Miscellaneous food preparation occupations	6 320	1 585	62 528	52 667	11 658	8 969	69	58	22	22	—	—
Health service occupations	9 327	3 340	263 854	208 203	95 683	66 153	—	—	96	89	—	—
Dental assistants	777	603	1 618 356	1 430 116	1 570 297	1 388 202	84 785	81 601	141 190	138 747	5 856	5 437
Nursing aides, orderlies, and attendants	83	83	149 925	147 078	147 939	145 125	53 613	52 631	136 742	134 568	170	169
Cleaning and building service occupations, except household	180	137	251 850	216 440	242 961	209 416	28 602	27 002	2 049	2 049	5 024	4 900
Supervisors, cleaning and building service workers	39 344	8 486	1 216 581	1 066 600	1 179 397	1 033 661	11 759	8 295	3 461	3 461	558	548
Maid and housemen	1 623	262	1 011 439	977 300	362 330	205 777	11 759	8 295	—	—	270	192
Janitors and cleaners	6 067	3 301	256 983	198 626	233 099	11 471	172	77	—	—	37	26
Elevator operators	31 442	4 860	698 024	182 542	123 166	29 827	8 457	5 279	2 799	1 790	226	159
Pest control occupations	174	63	2 694	1 164	1 675	763	47	41	—	—	—	—
Personal service occupations	38	—	1 077	202	144	9	—	—	140	114	—	—
Supervisors, personal service occupations	66 672	29 645	558 817	501 793	57 516	47 706	1 074	990	144	138	30	17
Barbers	2 221	634	2 690	1 828	1 220	859	—	—	—	—	—	—
Hairdressers and cosmetologists	108	44	1 398	220	964	103	39	37	—	—	—	—
Attendants, amusement and recreation facilities	156	107	5 880	5 468	4 091	3 986	18	11	26	26	—	—
Guides	44 077	16 799	8 953	4 736	1 516	1 556	8	8	5	5	—	—
Lifeguards	3 831	1 957	10 351	6 747	4 684	2 906	—	—	—	—	—	—
Public transportation attendants	2 887	1 239	2 064	1 231	124	90	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	244	—	228	109	81	49	15	15	—	—	—	—
Child care workers, except private household	4 112	3 363	45 497	41 156	6 832	6 334	67	61	11	11	—	—
Personal service occupations, n.e.c.	9 036	5 502	426 021	395 636	18 715	15 419	581	543	35	35	8	7
Farming, forestry, and fishing occupations	43 073	4 028	55 735	9 695	9 107	953	320	35	114	3	20	12
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	21	—	555	315	63	41	6	—	—	—	—	—
Related agricultural occupations	41 599	3 923	51 208	8 592	8 594	847	314	35	114	3	20	12
Supervisors, related agricultural occupations	3 435	53	555	40	91	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	31 411	2 224	8 864	4 784	7 598	343	314	35	114	3	20	12
Animal caretakers, except farm	6 544	—	8 679	3 744	1 251	490	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	9	—	110	24	14	14	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services				Health services				Miscellaneous entertainment and recreation services—Con.			
	Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.												
Forestry and logging occupations	41	5	267	86	34	18	—	—	—	—	—	—
Supervisors, forestry and logging workers	17	—	67	27	2	2	—	—	—	—	—	—
Forestry workers, except logging	24	5	196	57	11	11	—	—	—	—	—	—
Timber cutting and logging occupations	1 412	100	2 193	702	56	47	—	—	—	—	—	—
Fishers, hunters, and trappers	919	68	58	27	20	20	—	—	—	—	—	—
Capitains and other officers, fishing vessels	487	32	2 064	647	10	7	—	—	—	—	—	—
Fishers	6	—	71	28	26	20	—	—	—	—	—	—
Hunters and trappers	23 241	1 746	331 522	50 511	143 515	28 417	1 107	—	—	—	—	—
Precision production, craft, and repair occupations	12 433	270	83 830	5 649	24 837	1 286	204	8 809	4 099	95	16	2 867
Mechanics and repairers	12 521	6	5 902	548	1 977	181	25	51	21	39	—	1 533
Supervisors, mechanics and repairers	12 112	264	77 928	4 521	22 860	1 105	179	42	14	39	—	5
Mechanics and repairers, except supervisors	2 450	21	18 982	449	1 437	90	60	9	9	39	—	14
Vehicle and mobile equipment mechanics and repairers	1 509	19	9 433	336	1 114	66	58	3	3	39	—	1
Automobile mechanics	102	—	7 084	17	59	—	—	—	—	—	—	—
Bus, truck, and stationary engine mechanics	212	—	702	23	33	—	—	—	—	—	—	—
Aircraft engine mechanics	301	—	277	27	47	7	2	—	—	—	—	—
Small engine repairers	401	—	474	12	46	—	—	—	—	—	—	—
Automobile body and related repairers	243	2	67	37	16	11	—	—	—	—	—	—
Aircraft mechanics, except engine	39	—	511	11	114	6	—	6	—	—	—	—
Heavy equipment mechanics	2 099	48	134	6	8	—	—	—	—	—	—	—
Farm equipment mechanics	78	18	11 127	1 888	1 830	350	2	6	—	—	—	—
Industrial machinery repairers	469	—	8 556	1 502	1 300	258	2	—	—	—	—	—
Machinery maintenance occupations	196	6	840	132	104	18	—	—	—	—	—	—
Mechanical and electronic equipment repairers	57	5	761	55	163	21	—	—	—	—	—	—
Electrical and electronic equipment repairers	24	—	60	16	—	—	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment	38	—	524	131	190	37	—	6	—	—	—	—
Data processing equipment repairers	154	7	386	52	73	16	—	—	—	—	—	—
Household appliance and power tool repairers	89	—	9 495	166	3 904	118	6	—	—	—	—	—
Telephone line installers and repairers	6 727	177	23 793	1 661	8 402	435	63	14	5	—	—	11
Telephone installers and repairers	171	—	751	130	73	29	—	34	—	—	—	2
Miscellaneous electrical and electronic equipment repairers	50	—	2 348	94	650	3	—	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	5	—	723	86	110	46	26	—	—	—	—	—
Miscellaneous electric and electronic equipment repairers	13	—	153	13	28	—	—	—	—	—	—	—
Construction trades, except supervisors	57	18	581	41	278	25	—	—	—	—	—	—
Brickmasons and stonemasons	4 451	132	9 366	953	3 620	176	7	8	5	—	—	2
Tile setters, hard and soft	1 949	27	9 099	314	3 529	135	—	9	—	—	—	9
Carpet installers	6 115	271	116 846	3 626	39 008	915	275	91	16	—	—	50
Carpenters	648	32	11 581	516	3 776	201	31	7	—	—	—	20
Drywall installers	81	4	56	—	10	—	—	—	—	—	—	—
Electricians	42	—	1 129	7	332	—	—	—	—	—	—	—
Painters, construction and maintenance	7	—	1 548	45	454	6	—	—	—	—	—	—
Supervisors, construction occupations	518	28	8 157	437	2 682	168	31	7	—	—	—	—
Supervisors, brickmasons, stonemasons, and tile setters	5 467	239	105 265	3 110	35 292	714	244	40	16	—	—	50
Supervisors, carpenters and related workers	97	—	2 313	101	537	15	3	—	—	—	—	—
Supervisors, electricians and power transmission installers	30	—	168	12	54	—	—	—	—	—	—	—
Supervisors, painters, paperhangers, and plasterers	2 329	60	32 509	1 125	9 366	154	106	23	16	—	—	16
Supervisors, plumbers, pipefitters, and steamfitters	12	—	381	19	106	12	6	—	—	—	—	—
Supervisors, n.e.c.	931	25	23 960	345	8 768	102	26	—	—	—	—	—
Construction trades, except supervisors	1 352	136	22 349	1 142	8 563	339	77	—	—	—	—	—
Brickmasons and stonemasons	21	—	177	25	120	25	—	—	—	—	—	—
Tile setters, hard and soft	—	—	—	—	—	—	—	—	—	—	—	—
Carpet installers	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters	—	—	—	—	—	—	—	—	—	—	—	—
Drywall installers	—	—	—	—	—	—	—	—	—	—	—	—
Electricians	—	—	—	—	—	—	—	—	—	—	—	—
Painters, construction and maintenance	—	—	—	—	—	—	—	—	—	—	—	—
Paperhangers	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Entertainment and recreation services—Con.			Professional and related services			Health services		
	Miscellaneous entertainment and recreation services			Offices of physicians			Offices of dentists		
	Total	Female	Total	Total	Female	Total	Total	Female	Total
United States									
Employed persons 16 years and over—Con.									
Precision production, craft, and repair occupations—Con.									
Precision production occupations—Con.									
Plant and system operators	505	13	25 436	522	127	17	—	—	2
Water and sewage treatment plant operators	25	—	483	21	10	—	—	—	—
Power plant operators	441	6	757	32	11	17	—	—	2
Stationary engineers	33	7	23 733	401	70	—	—	—	—
Miscellaneous plant and system operators	21 005	3 789	478 340	234 021	70 305	1 412	—	—	100
Operators, fabricators, and laborers	4 372	1 243	147 650	90 435	59 015	509	613	353	67
Machine operators, assemblers, and inspectors	3 495	1 072	137 331	78 853	56 681	459	312	209	55
Machine operators and tenders, except precision	123	27	1 661	413	145	—	25	114	7
Machine operators and tenders, except precision	8	—	26	2	2	—	6	6	—
Machine operators and tenders, except precision	8	—	361	103	20	—	—	—	—
Machine operators and tenders, except precision	6	6	65	10	18	—	—	—	—
Machine operators and tenders, except precision	6	—	399	46	—	—	—	—	—
Machine operators and tenders, except precision	—	—	7	7	—	—	—	—	—
Machine operators and tenders, except precision	—	—	155	52	13	—	—	—	7
Machine operators and tenders, except precision	109	21	540	157	88	—	19	—	—
Machine operators and tenders, except precision	—	—	29	4	—	—	—	—	—
Machine operators and tenders, except precision	—	—	11	11	4	—	—	—	—
Machine operators and tenders, except precision	—	—	68	25	—	—	—	—	—
Machine operators and tenders, except precision	22	6	158	42	10	9	—	—	—
Machine operators and tenders, except precision	19	6	1 213	640	175	9	—	—	—
Machine operators and tenders, except precision	13	6	1 011	519	151	2	—	—	—
Machine operators and tenders, except precision	—	—	167	99	14	—	—	—	—
Machine operators and tenders, except precision	—	—	35	22	10	—	—	—	—
Machine operators and tenders, except precision	6	—	—	—	—	—	—	—	—
Machine operators and tenders, except precision	45	12	790	66	8	—	—	—	—
Machine operators and tenders, except precision	—	9	6	—	—	—	—	—	—
Machine operators and tenders, except precision	3	3	173	15	—	—	—	—	—
Machine operators and tenders, except precision	33	—	18	—	—	—	—	—	—
Machine operators and tenders, except precision	98	28	563	51	8	—	—	—	—
Machine operators and tenders, except precision	81	19	16 809	6 746	1 034	21	14	13	—
Machine operators and tenders, except precision	4	4	14 105	4 946	847	13	6	13	—
Machine operators and tenders, except precision	6	6	1 603	206	79	8	—	—	—
Machine operators and tenders, except precision	625	437	62 611	422	40	—	—	—	6
Machine operators and tenders, except precision	2	2	21	14	10	91	35	—	—
Machine operators and tenders, except precision	11	2	70	44	4	—	—	—	—
Machine operators and tenders, except precision	81	77	4 640	4 297	36	7	—	—	6
Machine operators and tenders, except precision	17	5	96	49	10	—	—	—	—
Machine operators and tenders, except precision	487	353	2 238	1 889	1 720	84	35	—	—
Machine operators and tenders, except precision	23	561	55 436	44 286	40 235	—	—	—	—
Machine operators and tenders, except precision	2 564	561	243	148	84	—	—	—	—
Machine operators and tenders, except precision	5	—	54 089	20 165	10 159	338	105	73	75
Machine operators and tenders, except precision	5	—	407	177	45	247	—	—	—
Machine operators and tenders, except precision	5	—	655	415	150	22	—	—	—
Machine operators and tenders, except precision	10	8	67	19	19	—	—	—	6
Machine operators and tenders, except precision	17	20	451	258	104	—	—	—	—
Machine operators and tenders, except precision	106	6	351	134	87	2	—	—	—
Machine operators and tenders, except precision	3	—	295	135	49	13	—	—	—
Machine operators and tenders, except precision	—	—	1 884	163	6	—	—	—	—
Machine operators and tenders, except precision	—	—	6	6	81	—	—	—	—
Machine operators and tenders, except precision	—	—	400	111	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Entertainment and recreation services—Con.		Professional and related services					
			Health services					
	Total	Female	Total	Female	Offices of physicians	Offices of dentists	Offices of chiropractors	Offices of optometrists
	Total	Female	Total	Female	Total	Female	Total	Female
United States								
Employed persons 16 years and over—Con.								
Operators, fabricators, and laborers—Con.								
Machine operators, assemblers, and inspectors—Con.								
Machine operators and tenders, except precision—Con.								
Machine operators, assorted materials—Con.								
Folding machine operators	8	—	325	158	85	32	—	—
Forming, lathe, and oven operators, except food	104	10	12 518	273	6 355	66	—	—
Crushing and grinding machine operators	37	—	163	40	11	—	—	—
Slicing and cutting machine operators	95	8	967	398	97	48	—	—
Motion picture projectionists	167	4	1 872	460	81	11	—	—
Photographic process machine operators	161	91	9 170	4 843	4 142	2 477	173	40
Miscellaneous machine operators, n.e.c.	406	124	12 764	8 256	7 539	5 767	20	20
Machine operators, not specified	1 420	290	11 794	4 289	2 472	1 176	33	13
Fabricators, assemblers, and hand working occupations								
Welders and cutters	738	155	22 437	8 365	3 543	1 792	34	74
Solderers and brazers	223	6	6 169	274	778	51	35	21
Assemblers	373	106	214	133	38	32	6	—
Hand cutting and trimming occupations	—	—	14 676	7 358	2 460	1 636	34	44
Hand making, coating, and forming occupations	16	10	80	46	14	15	—	—
Hand painting, coating, and decorating occupations	93	23	249	91	60	4	4	4
Hand engraving and printing occupations	18	9	495	155	87	5	5	5
Hand grinding and polishing occupations	—	—	13	8	—	—	—	—
Miscellaneous hand working occupations	15	1	11	—	5	—	—	—
Production inspectors, testers, samplers, and weighers	138	36	536	300	101	53	—	—
Production inspectors, checkers, and examiners	83	22	7 882	3 217	1 032	542	21	21
Production testers	6	—	3 594	1 022	627	316	21	21
Production samplers and weighers	—	—	204	59	27	4	—	—
Graders and sorters, except agricultural	49	14	61	17	11	—	—	—
Transportation and material moving occupations								
Motor vehicle operators	7 682	1 193	236 027	122 443	22 250	4 930	424	83
Supervisors, motor vehicle operators	5 954	1 091	228 675	121 554	20 361	4 615	396	96
Truck drivers, heavy	123	14	228 797	121 554	20 361	4 615	396	96
Truck drivers, light	1 332	249	18 831	3 247	4 879	951	77	14
Driver-sales workers	445	90	14 618	3 474	5 851	1 752	112	36
Bus drivers	300	40	1 581	514	591	231	2	2
Taxicab drivers and chauffeurs	851	248	176 389	109 655	1 673	521	—	—
Porting for attendants	864	181	13 440	4 034	5 857	970	146	32
Motor transportation occupations, n.e.c.	2 021	262	2 872	438	1 196	136	51	7
Rail transportation occupations								
Railroad conductors and yardmasters	96	37	192	35	61	8	—	—
Locomotive operating occupations	76	26	113	22	30	6	—	—
Railroad brake, signal, and switch operators	—	—	30	—	14	—	—	—
Rail vehicle operators, n.e.c.	20	11	21	6	15	—	—	—
Water transportation occupations								
Ship captains and mates, except fishing boats	300	20	589	111	60	32	—	—
Sailors and deckhands	189	11	215	28	17	11	—	—
Marine engineers	54	—	289	65	10	3	—	—
Bridge, lock, and lighthouse tenders	48	4	27	6	12	6	—	—
Material moving equipment operators								
Supervisors, material moving equipment operators	1 332	45	6 571	743	1 768	275	28	12
Operating engineers	3	—	473	65	210	36	—	—
Longshore equipment operators	276	—	1 816	74	509	40	7	—
Hoist and winch operators	8	—	88	11	4	4	—	—
Crane and lower operators	19	7	80	18	10	10	5	—
Excavating and loading machine operators	38	—	346	—	27	—	—	—
Grader, dozer, and scraper operators	63	—	312	24	54	—	—	—
Industrial truck and tractor equipment operators	35	—	167	16	20	—	—	—
Miscellaneous material moving equipment operators	629	11	1 491	100	277	14	9	—
	261	27	1 798	415	657	171	7	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Entertainment and recreation services—Con.				Professional and related services							
	Miscellaneous entertainment and recreation services				Health services							
	Total		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	8 951	1 376	74 663	21 143	16 782	6 360	479	244	218	111	95	33
Operators, fabricators, and laborers—Con.												
Headmen, equipment cleaners, helpers, and laborers	42	6	1 086	373	361	140	4	4	—	—	—	—
n.e.c.	52	—	810	47	261	12	—	—	—	—	—	—
Helpers, mechanics and repairers	91	—	7 012	381	447	23	18	—	—	—	—	—
Helpers, construction and extractive occupations	—	—	2 007	76	430	15	—	—	—	—	—	—
Helpers, construction trades	—	—	5 005	305	17	8	—	—	—	—	—	—
Helpers, surveying	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	472	36	4 186	264	741	47	18	5	16	6	—	—
Production helpers	226	43	4 723	2 447	2 023	1 359	1	1	6	6	—	—
Freight, stock, and material handlers	1 290	164	9 702	1 783	2 394	481	22	9	17	—	—	—
Garbage collectors	99	10	911	90	350	21	6	—	—	—	—	—
Shovelers	—	—	273	—	33	—	—	—	10	—	—	—
Stock handlers and laborers	323	51	3 498	891	1 252	293	14	9	7	—	—	—
Machine feeders and operators	56	23	470	287	111	88	2	—	—	—	—	—
Freight, stock, and material handlers, n.e.c.	812	80	4 550	515	648	79	—	—	—	—	—	—
Garage and service station related occupations	122	14	779	118	248	70	24	—	32	32	60	—
Vehicle washers and equipment cleaners	238	15	2 260	1 085	871	580	17	12	18	8	14	12
Hand packers and packagers	169	90	6 813	3 631	1 361	992	21	10	6	—	4	4
Laborers, except construction	6 249	938	37 292	11 014	8 075	2 656	354	203	123	65	17	17
Offices of physicians												
Offices of dentists												
Offices of chiropractors												
Offices of optometrists												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1990—Cont. (Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

OCCUPATION BY INDUSTRY

United States

	Health services—Con.				Professional and related services—Con.				Educational services			
	Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Legal services		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	54 110	39 880	4 424 547	3 390 724	1 083 897	946 319	470 569	328 110	751 790	385 336	8 377 213	5 445 193
Managerial and professional specialty occupations	33 713	20 829	1 589 138	1 195 586	203 640	170 239	181 109	112 932	395 968	56 110	5 087 758	3 171 874
Executive, administrative, and managerial occupations	2 049	1 551	193 092	96 672	53 315	33 402	50 269	23 545	17 212	11 577	561 802	233 668
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—
Administrative, protective services	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	29	29	7 932	2 784	734	266	1 176	520	5	—	242	1 756
Personnel and labor relations managers	35	14	7 567	3 657	1 139	722	991	600	476	230	4 950	3 496
Purchasing managers	—	—	—	—	—	—	—	—	—	—	—	—
Managers, marketing, advertising, and public relations	46	15	2 275	837	123	31	142	72	21	5	1 335	328
Managers, education and related fields	10	10	1 474	586	138	47	495	170	54	37	2 007	908
Managers, medicine and health	317	247	67 297	32 205	22 881	13 655	12 984	5 798	47	10	342 443	116 919
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	1 399	1 089	62 193	31 247	22 454	15 102	22 365	11 517	10 566	7 846	139 285	74 671
Salaried	1 315	1 038	61 894	31 068	20 833	14 023	21 485	11 191	10 159	7 574	137 812	74 033
Self-employed	84	51	6 299	1 799	1 621	1 079	880	326	407	272	1 473	617
Management related occupations	213	147	42 543	24 633	5 014	3 051	11 395	4 573	5 587	3 139	61 947	35 210
Accountants and auditors	109	69	16 728	8 642	1 634	784	2 887	1 567	3 659	1 924	23 614	13 748
Underwriters	—	—	—	—	—	—	—	—	—	—	—	—
Other financial officers	10	10	56	42	191	87	405	203	927	663	8 010	4 874
Management analysts	4	4	1 643	1 139	175	107	166	891	166	891	1 755	844
Personnel, training, and labor relations specialists	88	64	10 441	7 352	2 375	1 700	1 618	1 122	457	338	17 331	10 227
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	—	—	—	—	—	—	—	—	—	—	—	—
Construction inspectors	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors and compliance officers, except construction	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations, n.e.c.	2	—	264	150	45	29	4	887	135	67	2 518	1 063
Professional specialty occupations	31 664	19 278	1 396 046	1 098 914	150 325	136 837	130 840	89 387	378 756	44 533	4 525 956	2 938 206
Engineers, architects, and surveyors	16	6	5 548	3 944	249	61	1 262	195	338	17	13 860	1 498
Architects	6	6	256	36	3	3	32	188	121	10	1 552	264
Engineers	10	6	5 300	3 550	257	55	1 218	188	204	7	12 042	1 081
Aerospace engineers	—	—	—	—	—	—	—	—	—	—	—	—
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers	—	—	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	—	—	—	—	—	—	—	—	—	—
Chemical engineers	—	—	—	—	—	—	—	—	—	—	—	—
Nuclear engineers	—	—	—	—	—	—	—	—	—	—	—	—
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	—	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers	—	—	—	—	—	—	—	—	—	—	—	—
Mechanical engineers	8	—	876	149	49	13	106	67	31	—	3 473	138
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—
Engineers, n.e.c.	2	—	2 075	288	55	29	576	82	18	5	1 401	38
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	20	18	4 027	1 811	107	80	955	441	106	53	11 149	3 909
Computer systems analysts and scientists	2	—	2 053	767	7	7	265	49	61	25	6 718	1 943
Operations and systems researchers and analysts	9	9	976	428	42	24	188	84	27	22	1 953	907
Actuaries	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	9	9	979	611	58	49	472	302	18	6	2 100	993
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Professional and related services—Con.															
Health services—Con.															
Offices of health practitioners, n.e.c.				Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Legal services		Educational services		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
165	102	17 492	7 453	265	126	5 413	2 028	352	57	24 253	6 685				
6	14	888	57	26	8	144	19	7	6	3 171	206				
20	67	2 261	877	14	8	952	197	17	6	3 917	1 070				
77	67	81	76	36	31	58	30	7	7	375	109				
77	67	90	76	36	31	27	18	7	7	1 441	197				
8	—	128	91	76	31	215	33	7	7	420	81				
21	10	181	91	21	13	93	35	7	7	3 958	749				
91	10	6 073	3 121	78	24	1 990	866	301	41	8 752	3 147				
15	2	7 332	3 311	6	24	84	5	13	5	456	124				
18	9	7 738	3 311	77	50	1 850	825	13	5	2 033	1 002				
7 285	664	170 421	32 041	1 447	527	14 931	2 841	435	52	13 262	2 835				
298	47	163 942	30 868	1 051	325	12 410	2 405	367	38	11 055	2 411				
85	18	4 724	770	178	73	1 772	294	48	10	989	160				
2	2	630	195	2	2	66	13	10	10	931	185				
15	15	440	95	34	10	203	11	4	4	91	21				
6 434	449	311	8	41	10	33	11	4	4	40	13				
451	135	374	141	141	117	445	118	6	6	156	45				
13 250	12 376	1 106 464	1 000 075	112 692	107 728	67 155	59 382	218	174	83 027	78 388				
10 761	10 365	918 879	877 140	90 964	88 816	45 133	43 851	136	133	43 267	42 605				
13	6	34 329	13 018	788	341	868	344	17	6	4 532	4 268				
1 161	973	39 125	35 465	8 485	7 966	2 107	2 026	37	18	34 274	31 013				
1 231	973	104 594	69 623	12 167	10 396	16 946	1 157	28	17	303	173				
84	59	9 537	4 829	209	288	2 101	1 157	122	33	614 356	222 180				
15	5	1 313	538	141	78	141	116	78	44	3 344 317	2 349 611				
66	54	10 775	8 146	5 395	4 215	3 461	2 818	78	78	44 533	42 498				
2	2	236	72	542	514	65	49	—	—	3 134 907	2 201 211				
2	2	693	512	2 536	2 003	617	473	28	28	18 113	12 504				
64	54	9 846	7 406	2 317	1 698	2 779	2 296	60	44	146 764	93 398				
47	34	3 397	1 839	1 715	1 024	2 387	1 286	159	131	159 048	82 124				
11	11	2 600	2 238	211	182	306	272	1 595	1 289	159 048	131 549				
11	11	2 509	2 146	199	178	274	240	1 549	1 282	156 464	130 078				
—	—	91	72	12	4	32	32	26	7	2 584	1 471				
8 972	4 662	20 332	9 047	3 192	1 839	13 056	5 914	203	56	27 222	13 860				
13	7	174	104	59	1 739	29	85	65	18	1 479	543				
8 944	4 640	19 702	8 714	3 034	1 739	12 682	5 778	54	17	22 669	11 934				
15	15	103	47	8	8	53	25	21	16	611	258				
15	15	46	175	87	59	48	34	34	16	1 046	1 046				
1 432	1 249	43 741	28 996	24 024	20 424	17 958	12 324	29	576	27 317	17 613				
415	282	37 606	26 916	11 909	9 390	17 560	12 118	106	333	21 466	15 545				
23	17	827	589	106	106	269	151	68	13	1 655	809				
10	5	4 946	1 227	723	148	101	44	1 976	230	2 669	519				
1 184	945	362	284	244	219	28	11	27	27	1 527	740				
32	14	663	250	125	59	1 247	181	370	41	2 484	710				
32	14	663	250	125	59	1 247	181	370	41	2 484	710				
153	90	9 053	5 686	742	494	2 168	1 589	1 124	465	58 530	27 244				
9	9	70	56	7	7	56	8	8	8	1 080	575				
6	6	690	511	28	12	181	88	167	52	2 330	1 229				
9	9	378	43	69	43	152	55	6	6	3 951	1 790				
2	2	79	56	49	37	25	20	132	7	1 983	1 983				
—	—	54	4	4	4	298	181	36	36	4 852	2 672				
—	—	686	381	46	46	298	181	116	116	3 805	1 079				
7	7	1 485	464	9	9	135	62	32	14	2 931	1 361				
—	—	14	14	4	4	192	117	7	7	10 459	6 923				
37	31	1 037	137	94	53	314	261	222	203	11 308	6 309				
27	24	4 111	2 988	360	234	1 184	773	2	114	11 978	2 673				
56	9	68	14	16	9	37	17	—	—						

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con.

Natural scientists

Physicists and astronomers

Chemists, except biochemists

Atmospheric and space scientists

Geologists and geodesists

Physical scientists, n.e.c.

Agricultural and food scientists

Biological and life scientists

Forestry and conservation scientists

Medical scientists

Health diagnosing occupations

Physicians

Dentists

Veterinarians

Optometrists

Podiatrists

Health diagnosing practitioners, n.e.c.

Health assessment and treating occupations

Registered nurses

Pharmacists

Dietitians

Therapists

Physicians' assistants

Teachers, postsecondary

Teachers, except postsecondary

Teachers, elementary and kindergarten

Teachers, secondary and vocational

Teachers, n.e.c.

Counselors, educational and vocational

Librarians, archivists, and curators

Librarians

Archivists and curators

Social scientists and urban planners

Economists

Psychologists

Sociologists

Social scientists, n.e.c.

Urban planners

Social, recreation, and religious workers

Social workers

Recreation workers

Religious workers, n.e.c.

Lawyers and judges

Judges

Writers, artists, entertainers, and athletes

Authors

Technical writers

Designers

Musicians and composers

Actors and directors

Painters, sculptors, craft-artists, and artist printmakers

Photographers

Dancers

Artists, performers, and related workers, n.e.c.

Editors and reporters

Public relations specialists

Announcers

Managers

Administrative

Sales

Transportation

Food service

Retail

Health services

Education

Legal services

Professional and related services

Offices of health practitioners, n.e.c.

Hospitals

Nursing and personal care facilities

Health services, n.e.c.

Legal services

Educational services

Total

Male

Female

Handbook of Occupational Statistics, Bureau of Economic Analysis, Department of Commerce, Washington, D.C., 1963. For more information, see Introduction. For definitions of symbols, see Appendix A.1. Data are estimates based on a sample; see Introduction. For more information, see Introduction.

United States

Professional and related services—Con.

	Health services—Con.						Legal services						Educational services					
	Offices of health practitioners, n.e.c.			Hospitals			Nursing and personal care facilities			Health services, n.e.c.			Total			Total		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed persons 16 years and over—Con.																		
Technical, sales, and administrative support occupations	10 407	9 947	1 427 776	1 235 154	127 260	134 004	171 326	144 617	348 926	171 326	144 617	348 926	1 566 693	326 159	1 304 912	1 566 693	326 159	1 304 912
Technicians and related support occupations	4 871	4 484	654 214	538 396	75 844	78 711	62 390	45 770	29 777	62 390	45 770	29 777	175 310	22 716	73 916	175 310	22 716	73 916
Health technologists and technicians	4 742	4 580	628 748	525 789	75 391	77 942	32 259	23 700	123 47	32 259	23 700	123 47	20 671	35	13 370	20 671	35	13 370
Health laboratory technicians and technicians	88	15	180 763	135 333	2 603	3 068	1 271	1 335	4	1 271	1 335	4	2 927	—	2 178	2 927	—	2 178
Dental hygienists	15	12	784	752	135	551	542	586	—	542	586	—	184	—	171	184	—	171
Health record technicians and technicians	—	—	12 095	11 196	330	330	6 355	4 800	12	6 355	4 800	12	302	—	211	302	—	211
Radiologic technicians	22	22	74 240	51 537	269	269	10 006	9 747	24	10 006	9 747	24	3 184	—	3 108	3 184	—	3 108
Licensed practical nurses	4 551	4 432	281 495	271 593	69 968	71 603	6 068	2 848	36	6 068	2 848	36	13 445	14	7 094	13 445	14	7 094
Health technologists and technicians, n.e.c.	66	47	79 149	55 378	1 874	2 255	1 743	907	307	1 743	907	307	36 598	56	13 876	36 598	56	13 876
Engineering and related technicians and technicians	45	19	6 787	2 669	58	147	6 787	2 669	58	6 787	2 669	58	7 033	16	915	7 033	16	915
Electrical and electronic technicians	21	9	2 582	641	10	50	43	34	—	43	34	—	98	—	40	98	—	40
Industrial engineering technicians	—	—	146	47	5	11	19	14	1	19	14	1	194	—	40	194	—	40
Mechanical engineering technicians	—	—	198	96	33	45	280	745	30	280	745	30	25 854	17	11 845	25 854	17	11 845
Engineering technicians, n.e.c.	24	10	3 002	1 634	2	138	131	30	219	131	30	219	3 018	20	823	3 018	20	823
Drafting occupations	—	—	165	113	2	6	33	21	34	33	21	34	401	2	213	401	2	213
Surveying and mapping technicians	—	—	2 074	1 031	6	6	901	453	22	901	453	22	9 820	8	9 820	9 820	8	9 820
Science technicians	17	6	529	303	—	—	289	129	8	289	129	8	1 224	8	1 224	1 224	8	1 224
Biological technicians	6	6	467	312	6	6	157	69	6	157	69	6	3 559	—	3 559	3 559	—	3 559
Chemical technicians	11	11	1 078	416	389	616	455	255	8	455	255	8	13 269	—	7 481	13 269	—	7 481
Science technicians, n.e.c.	67	42	16 405	8 907	—	—	3 138	1 503	29	3 138	1 503	29	96 818	22 248	36 850	96 818	22 248	36 850
Technicians, except health, engineering, and science	—	—	44	21	—	8	2	—	25	2	—	25	23	—	23	23	—	23
Airplane pilots and navigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Air traffic controllers	—	—	227	133	—	—	32	11	42	32	11	42	1 805	37	471	1 805	37	471
Broadcast equipment operators	—	—	4 416	1 674	106	171	665	257	541	665	257	541	20 099	279	6 420	20 099	279	6 420
Computer programmers	—	—	109	58	2	2	19	12	21	19	12	21	346	5	187	346	5	187
Tool programmers, numerical control	—	—	556	458	3	3	190	120	26	190	120	26	794	449	29 300	794	449	29 300
Legal assistants	67	42	11 253	6 563	278	432	2 230	1 103	2 105	2 230	1 103	2 105	73 477	956	42 545	73 477	956	42 545
Technicians, n.e.c.	174	132	20 817	18 148	541	832	3 406	1 657	1 014	3 406	1 657	1 014	53 122	518	42 545	53 122	518	42 545
Sales occupations	18	8	962	438	43	117	282	105	228	282	105	228	2 712	174	1 412	2 712	174	1 412
Supervisors and proprietors, sales occupations	8	8	962	438	43	117	282	105	228	282	105	228	2 632	166	1 348	2 632	166	1 348
Salaried	10	10	86	58	41	56	20	6	515	20	6	515	789	242	274	789	242	274
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	—	—	80	58	41	47	—	—	246	—	—	246	452	145	132	452	145	132
Insurance sales occupations	—	—	6	—	—	9	20	6	6	20	6	6	337	97	142	337	97	142
Real estate sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	263	—	—	263	—	—	—	—	—	—
Advertising and related sales occupations	—	—	14	—	—	—	2	2	7	2	2	7	17	—	5	17	—	5
Sales occupations, other business services	—	—	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales engineers	—	—	19 489	17 418	455	652	3 082	1 540	202	3 082	1 540	202	48 796	102	40 433	48 796	102	40 433
Sales representatives, mining, manufacturing, and wholesale	156	114	2 918	2 095	230	365	2 182	750	—	2 182	750	—	8 945	5	5 229	8 945	5	5 229
Sales workers, retail and personal services	137	95	204	162	23	27	—	—	5	—	—	5	233	—	142	233	—	142
Sales workers, commodities	16	16	16 053	15 048	186	217	599	545	109	599	545	109	37 130	73	33 847	37 130	73	33 847
Cashiers	3	3	346	218	10	37	23	22	72	23	22	72	2 266	13	1 118	2 266	13	1 118
Street and door-to-door sales workers	—	—	148	95	6	6	6	6	—	6	6	—	808	—	808	808	—	808
News vendors	—	—	19	19	2	2	6	6	—	6	6	—	101	—	101	101	—	101
Sales related occupations	—	—	19	19	2	2	6	6	—	6	6	—	808	—	808	808	—	808
Demonstrators, promoters and models, sales	—	—	41	21	—	—	—	—	48	—	—	48	683	—	683	683	—	683
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	—	—	747 745	678 610	50 875	54 461	105 530	97 190	317 935	105 530	97 190	317 935	1 338 261	303 253	1 88 451	1 338 261	303 253	1 88 451
Administrative support occupations, including clerical	5 362	5 171	24 998	28 130	2 714	2 211	4 682	3 827	4 589	4 682	3 827	4 589	26 973	3 805	18 049	26 973	3 805	18 049
Supervisors, administrative support occupations	240	212	27 634	21 708	1	2	3 609	3 047	3 973	3 609	3 047	3 973	18 386	3 422	13 812	18 386	3 422	13 812
Supervisors, general office	13	13	833	468	33	399	99	58	24	99	58	24	1 102	271	2 748	1 102	271	2 748
Supervisors, computer equipment operators	—	—	6 049	4 458	289	399	640	779	372	640	779	372	4 145	12	120	4 145	12	120
Supervisors, financial records processing	—	—	730	697	—	—	18	12	174	18	12	174	2 444	48	738	2 444	48	738
Supervisors, communications operators	—	—	1 752	799	53	309	251	103	170	251	103	170	20 563	1 473	10 991	20 563	1 473	10 991
Supervisors, distribution, scheduling, and adjusting clerks	7	28	14 193	10 506	231	309	2 160	1 392	1 707	2 160	1 392	1 707	20 563	1 473	10 991	20 563	1 473	10 991
Computer equipment operators	34	28	13 543	9 992	277	287	2 074	1 632	1 605	2 074	1 632	1 605	19 714	374	10 521	19 714	374	10 521
Computer operators	—	—	650	514	7	12	86	71	102	86	71	102	849	99	849	849	99	849
Peripheral equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Professional and related services—Con.									
Health services—Con.					Legal services				
Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
2 244	2 224	251 289	247 840	19 120	18 884	39 526	39 069	254 581	252 557
2 098	2 078	204 464	202 342	16 795	16 628	31 583	31 302	245 287	243 555
4	4	4 317	4 270	243	235	7 704	7 064	2 125	2 041
142	142	42 508	41 278	2 082	2 021	7 239	7 063	7 169	6 961
1 242	1 202	81 363	76 155	5 756	5 548	15 421	15 050	11 875	11 249
11	11	4 920	4 395	206	181	605	517	11 186	10 109
—	—	—	—	—	—	—	—	—	—
26	7	1 857	993	89	46	106	68	61	47
1 165	1 154	72 881	69 226	5 345	5 218	14 382	14 183	10 949	10 757
40	30	1 705	1 541	282	103	328	282	679	336
108	102	61 446	55 227	2 268	2 130	6 324	5 774	5 868	4 342
—	—	29	29	—	—	7	7	24	16
—	—	467	444	2	2	21	21	20	12
23	17	3 541	2 488	118	81	305	189	303	60
6	6	3 359	3 125	205	200	313	289	109	46
45	45	18 072	14 968	413	104	32	32	528	46
34	34	34 989	33 160	1 420	364	2 323	2 144	5 067	3 813
620	585	56 178	52 151	10 988	10 308	12 523	11 601	15 500	14 639
502	483	31 846	29 325	9 711	9 091	9 759	9 082	14 555	13 745
17	17	6 231	5 714	856	817	415	415	174	169
85	85	16 996	16 262	336	333	1 972	1 874	679	641
—	—	519	460	44	30	307	174	38	30
—	—	2 197	1 438	77	71	125	71	56	54
—	—	137	130	40	40	48	35	161	161
—	—	157	128	—	—	—	—	6	6
—	—	1 544	1 010	37	31	77	72	107	85
—	—	26 690	26 031	1 413	1 268	1 232	1 186	939	918
—	—	26 605	25 932	1 419	1 265	1 232	1 186	933	912
—	—	48	35	3	3	—	—	6	6
—	—	37	37	—	—	—	—	—	—
18	12	10 285	6 085	238	142	2 243	955	4 477	1 267
—	—	—	—	—	—	—	—	—	—
—	—	5 432	3 206	161	117	705	389	1 033	294
12	6	4 853	2 879	77	25	1 538	566	3 444	973
6	6	28 951	28 951	2 046	1 426	2 913	1 752	583	334
64	47	838	522	49	36	142	63	145	87
34	34	3 123	2 372	156	132	430	305	145	107
17	17	3 764	2 945	123	41	436	236	86	58
6	6	35 217	21 369	1 133	668	1 353	780	213	92
—	—	253	207	7	5	50	30	12	8
—	—	71	71	2	2	6	6	—	—
—	—	999	872	19	19	135	109	55	23
—	—	3 078	2 593	557	523	281	229	976	7
25	19	8 765	7 408	116	103	1 392	1 077	27	514
—	—	—	—	—	—	—	—	—	—
25	19	3 802	3 085	58	49	926	714	504	198
—	—	4 594	3 312	25	25	149	149	289	226
—	—	4 594	4 011	33	29	293	214	429	1 781
767	740	150 838	138 688	9 416	8 608	16 989	15 089	16 274	11 903
356	336	98 330	90 531	5 583	5 158	9 536	8 708	9 711	6 874
—	—	—	—	—	—	—	—	—	—
—	—	39	39	9	—	12	6	731	461
—	—	12 174	11 474	675	174	1 801	1 708	3 991	3 527
—	—	9 575	8 585	496	645	1 614	1 431	3 407	326
—	—	576	495	496	449	336	20	193	157
—	—	30 124	27 564	2 473	2 182	3 690	2 931	1 414	695
325	319	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Administrative support occupations, including clerical—Con.

Secretaries, stenographers, and typists

Secretaries

Stenographers

Typists

Information clerks

Interviewers

Hotel clerks

Transportation ticket and reservation agents

Receptionists

Information clerks, n.e.c.

Records processing occupations, except financial

Classified-ad clerks

Correspondence clerks

Order clerks

Personnel clerks, except payroll and timekeeping

Library clerks

File clerks

Records clerks

Financial records processing occupations

Bookkeepers, accounting, and auditing clerks

Payroll and timekeeping clerks

Billing clerks

Cost and rate clerks

Billing, posting, and calculating machine operators

Duplicating, mail, and other office machine operators

Duplicating machine operators

Mail preparing and paper handling machine operators

Office machine operators, n.e.c.

Communications equipment operators

Telephone operators

Telegraphers

Communications equipment operators, n.e.c.

Mail and message distributing occupations

Postal clerks, except mail carriers

Mail carriers, postal service

Mail clerks, except postal service

Messengers

Material recording, scheduling, and distributing clerks

Reproducers

Production coordinators

Traffic, shipping, and receiving clerks

Stock and inventory clerks

Wire readers

Weighers, measurers, and checkers

Samplers

Expeditors

Material recording, scheduling, and distributing clerks, n.e.c.

Adjusters and investigators

Insurance adjusters, examiners, and investigators

Investigators and adjusters, except insurance

Eligibility clerks, social welfare

Bill and account collectors

Miscellaneous administrative support occupations

General office clerks

Bank tellers

Proofreaders

Data-entry keyers

Statistical clerks

Teachers' aides

Administrative support occupations, n.e.c.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.

Health services—Con.

United States

	Offices of health practitioners, n.e.c.				Hospitals				Nursing and personal care facilities				Health services, n.e.c.				Legal services				Total			
	Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	9 471	8 911	1 240 883	909 257	707 171	623 927	68 720	54 724	5 115	2 421	1 301 833	816 375												
Private household occupations																								
Protective service occupations	11	5	30 504	2 368	2 493	313	790	59	1 502	155	52 834	14 081												
Supervisors, protective service occupations			2 110	75	24	15	14		29		1 462	144												
Supervisors, firefighting and fire prevention occupations			112	6							15													
Supervisors, police and detectives			1 998	69	69	15	14		29		1 447	144												
Supervisors, police and detectives			544	18	45	15	11		28		199	33												
Supervisors, guards	6		117	13	25		6		28		343	14												
Firefighting and fire prevention occupations	6		427	5																				
Freight and fire prevention occupations																								
Freight occupations																								
Police and detectives																								
Police and detectives, public service																								
Sherriffs, bailiffs, and other law enforcement officers																								
Correctional institution officers	5		27 850	2 275	2 355	298	765	59	1 445	144	41 504	8 428												
Guards	5		27 747	2 253	2 340	294	687	24	1 445	144	7 849	4 536												
Crossing guards			90	14	15	4																		
Guards and police, except public service																								
Protective service occupations, n.e.c.																								
Service occupations, except protective and household	9 460	8 906	1 210 379	906 889	704 678	623 614	67 930	54 665	3 613	2 265	1 248 999	802 294												
Food preparation and service occupations	320	285	147 404	103 525	103 485	87 283	2 470	1 818	67	43	446 771	402 397												
Supervisors, food preparation and service occupations	12		12 818	8 954	7 024	5 861	93	75			23 052	19 740												
Bakers	59		5 246	106	5 317	105	115	101	38	34	194 553	184 775												
Waiters and waitresses	100		4 573	37 422	48 323	43 705	1 308	1 007	24	6	1 167	733												
Cooks, except short order	6		52 499	1 383	145	116	132	8	7		3 018	2 625												
Short order cooks			1 892	1 558	157	123	76	54			8 919	8 307												
Food counter, fountain and related occupations	36	30	8 655	6 857	2 570	2 094	156	103	5		48 029	42 282												
Kitchen workers, food preparation	16		8 794	6 719	37 194	28 174	702	471			155 661	134 092												
Waiters and waitresses, assistants	91	76	57 521	37 275	490 056	459 543	2 223	1 033			21 356	18 705												
Miscellaneous food preparation occupations																								
Health service occupations	8 349	8 019	787 024	648 642	572	557	50 568	43 688	133	118	21 356	18 705												
Dental assistants			3 472	3 398	34 592	30 742	3 773	3 683			4 498	3 948												
Health aides, except nursing	56	50	130 973	104 973	34 592	30 742	13 482	10 646	29	29	15 217	13 289												
Nursing aides, orderlies, and attendants	2 016	2 000	452 984	540 271	454 892	428 244	8 453	3 675	3 217	1 967	511 556	458 811												
Cleaning and building service occupations, except household	6 277	5 969	652 957	141 681	79 666	49 187	4 578	3 675			26 407	16 041												
Supervisors, cleaning and building service workers	352	184	231 218	141 681	5 203	2 971	1 848	1 630			23 061	16 041												
Cleaning and building service workers	112	112	140 726	117 629	47 301	40 806	1 848	1 630	550	474	23 061	16 041												
Maids and housemen	112	112	140 726	117 629	47 301	40 806	1 848	1 630	2 603	1 440	461 251	117 872												
Janitors and cleaners	228		78 349	15 128	27 012	5 342	5 842	1 440			310	26												
Elevator operators			1 489	15	31	66	237	14			24													
Pest control occupations			1 164	15																				
Personal service occupations	439	418	17 994	13 041	31 471	27 601	6 347	5 484	196	138	269 316	242 381												
Supervisors, personal service occupations			343	343	344	266	82	48	7	2	1 021	76												
Barbers			812	135	2 724	13	13	6	18		1 076	879												
Hairstylists and cosmetologists	5	5	1 237	1 157	2 724	2 701	60	60	5 335	7	5 335	2 672												
Attendants, amusement and recreation facilities	5	5	629	2 544	358	295	93	54	7	7	2 284	1 334												
Guides	19	19	41	17	45	35	35	19	18	18	1 247	657												
Ushers																								
Public transportation attendants			64	32							42	24												
Baggage porters and bellhops			145	996	1 728	1 607	3 566	3 346	45	33	2 638	2 321												
Welfare service aides	307	307	5 007	4 266	11 974	9 750	1 254	983	26	26	233 633	217 965												
Child care workers, except private household	37	37	4 030	3 005	13 368	12 238	1 180	914	75	52	21 804	15 724												
Personal service occupations, n.e.c.	66	45																						
Farming, forestry, and fishing occupations	56	9	6 461	555	1 624	172	500	173	74		30 901	4 826												
Farm operators and managers																								
Farm occupations, except managerial			20	13	1 590	13	485	15	15		358	190												
Related agricultural occupations	56	9	6 343	485	1 590	151	500	173	74		30 901	4 826												
Supervisors, related agricultural occupations			91	121	1 532	131	266	51	55		26 541	2 942												
Groundskeepers and gardeners, except farm			5 297	364	1 58	20	211	99	6		3 393	1 558												
Animal caretakers, except farm	49	7	975																					
Graders and sorters, agricultural products																								
Inspectors, agricultural products																								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States												
Professional and related services—Con.												
Health services—Con.												
Offices of health practitioners, n.e.c.			Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Legal services		Educational services	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
—	—		28	16	6	2	—	—	—	—	105	42
—	—		—	—	2	2	—	—	—	—	2	—
—	—		17	11	4	—	—	—	—	—	30	16
—	—		11	5	—	—	—	—	—	—	73	26
—	—		50	41	6	6	—	—	—	—	93	69
—	—		20	20	—	—	—	—	—	—	8	2
—	—		10	14	—	—	—	—	—	—	63	59
—	—		20	7	6	—	—	—	—	—	22	8
167	59		82 160	8 337	10 232	2 684	37 098	10 582	502	184	133 257	15 612
47	11		20 893	1 016	2 472	80	1 112	102	76	47	47 467	3 094
—	—		1 546	147	330	9	62	6	12	—	3 077	315
47	11		19 347	869	2 142	71	1 050	96	64	35	44 390	2 779
30	11		1 027	64	152	—	119	—	20	21	15 468	263
28	11		790	46	123	—	72	—	21	21	7 137	207
2	—		33	—	5	—	19	—	6	—	6 841	17
—	—		25	—	8	—	14	—	—	—	469	20
—	—		33	7	—	—	—	—	—	—	266	—
—	—		44	—	—	—	—	—	8	—	358	12
—	—		16	11	16	—	14	—	—	—	27	16
—	—		84	—	—	—	—	—	—	—	257	11
—	—		2	—	—	—	—	—	—	—	113	—
6	—		5 927	95	824	6	334	11	7	—	5 435	143
—	—		114	—	12	—	9	—	20	—	273	20
—	—		1 598	277	134	21	88	50	11	5	7 068	1 349
—	—		1 186	202	45	11	67	43	5	5	5 883	1 175
—	—		102	18	69	7	6	—	—	—	449	58
—	—		88	14	—	—	—	—	—	—	319	34
—	—		—	—	17	—	13	7	6	—	9	9
—	—		154	30	—	—	—	—	—	—	198	55
—	—		68	13	3	3	2	—	—	—	210	18
—	—		3 657	118	192	49	49	—	—	—	4 939	25
11	—		7 024	315	828	44	451	35	17	9	11 237	997
—	—		623	22	16	5	19	2	—	—	444	64
—	—		84	20	—	—	11	—	9	9	1 673	91
—	—		28	—	—	—	—	—	—	—	531	7
—	—		246	25	32	—	—	—	—	—	84	13
—	—		97	8	6	6	7	—	—	—	246	16
—	—		2 920	124	416	11	229	26	—	—	68	2
11	—		2 982	113	353	22	185	—	8	—	4 194	655
—	—		34 212	583	3 541	200	785	49	196	33	54 238	1 554
33	—		3 048	138	573	43	117	13	28	8	4 128	165
7	—		10	—	21	—	7	—	—	—	33	—
—	—		304	6	35	—	10	—	—	—	568	—
—	—		409	9	6	—	5	—	—	—	679	—
—	—		209	7	6	6	—	—	—	—	184	—
7	—		2 038	116	511	37	95	8	28	8	173	—
—	—		31 164	445	2 968	157	668	36	168	25	50 110	1 389
26	—		478	10	45	—	11	5	—	—	1 164	51
—	—		36	—	12	—	6	—	—	—	107	—
—	—		45	—	6	—	—	—	—	—	189	—
10	—		8 113	91	811	20	253	4	119	17	16 144	565
—	—		79	—	21	6	—	—	—	—	45	—
8	—		8 301	86	316	16	117	—	—	—	11 008	178
—	—		12	—	—	—	23	—	—	—	37	—
—	—		7 210	206	1 099	108	139	17	49	8	10 719	432
—	—		99	18	21	7	—	—	—	—	10	22
Construction trades												
Supervisors, construction occupations												
Supervisors, bricklayers, stonemasons, and tile setters												
Supervisors, carpenters and related workers												
Supervisors, electricians and power transmission installers												
Supervisors, painters, paperhangers, and plasterers												
Supervisors, plumbers, pipefitters, and steamfitters												
Supervisors, n.e.c.												
Construction trades, except supervisors												
Bricklayers and stonemasons												
Tile setters, hard and soft												
Carpet installers												
Carpenters												
Drywall installers												
Electricians												
Electrical power installers and repairers												
Painters, construction and maintenance												
Paperhangers												

OCCUPATION BY INDUSTRY

United States

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Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Professional and related services—Con.

	Offices of health practitioners, n.e.c.				Hospitals				Nursing and personal care facilities				Health services, n.e.c.				Legal services		Educational services	
	Total		Female		Total		Female		Total		Female		Total		Female		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																				
Precision production, craft, and repair occupations—Con.																				
Precision production occupations—Con.																				
Plant and system operators	2	2	12 265	87	669	18	268	20					9		7 980	190				
Water and sewage treatment plant operators	2	2	207	5	10	—	37	8					—		153	5				
Power plant operators	—	—	409	52	21	18	206	6					—		278	21				
Stationary engineers	—	—	11 500	620	620	18	206	6					9		7 370	147				
Miscellaneous plant and system operators	—	—	149	30	18	—	12	6					—		179	17				
Operators, fabricators, and laborers	296	105	83 129	41 835	27 226	22 037	11 816	5 082					1 205		256 771	131 594				
Machine operators, assemblers, and inspectors	120	41	58 018	35 700	22 825	20 405	3 852	2 193					491		11 573	354				
Machine operators and leaders, except precision	81	29	55 438	34 448	22 393	20 143	2 541	1 532					567		34 046	14 910				
Metalworking and plastic working machine operators	—	—	125	42	24	3	186	87					6		375	12 687				
Lathe and turning machine operators	—	—	10	2	—	—	—	—					—		150	21				
Lathe and turning machine operators	—	—	29	14	8	—	—	—					—		4	2				
Milling and planing machine operators	—	—	7	—	—	—	—	—					—		21	2				
Punching and stamping machine operators	—	—	38	9	9	3	6	6					—		7	2				
Rolling machine operators	—	—	—	—	—	—	—	—					—		32	5				
Drilling and boring machine operators	—	—	13	13	—	—	18	—					—		—	—				
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	162	81					6		113	46				
Forging machine operators	—	—	20	—	—	—	—	—					—		8	7				
Numerical control machine operators	—	—	4	4	—	—	—	—					—		—	—				
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	—	—	—	—					—		33	7				
Fabricating machine operators, n.e.c.	—	—	19	8	—	—	—	—					—		48	2				
Metal and plastic forming machine operators	—	—	157	123	16	2	68	39					—		580	313				
Molding and casting machine operators	—	—	225	99	16	11	61	39					—		336	295				
Metal printing machine operators	—	—	22	14	—	—	—	—					—		32	6				
Metal treating equipment operators	—	—	10	10	—	—	—	—					—		12	12				
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—					—		—	—				
Woodworking machine operators	—	—	23	—	11	8	49	—					9		198	25				
Wood lathe, routing, and planing machine operators	—	—	6	—	1	—	16	—					—		54	6				
Sawing machine operators	—	—	—	—	—	—	—	—					—		24	—				
Shaping and joining machine operators	—	—	17	—	10	8	33	—					9		120	19				
Nailing and nailing machine operators	—	—	—	—	—	—	—	—					—		—	—				
Miscellaneous woodworking machine operators	—	—	—	—	—	—	—	—					—		—	—				
Printing machine operators	16	—	2 377	887	74	37	222	96					169		9 715	4 143				
Printing machine operators	16	—	2 113	745	66	29	171	67					136		8 034	2 993				
Photoengravers and lithographers	—	—	198	49	—	—	36	22					21		187	69				
Typesetters and compositors	—	—	41	10	—	—	8	7					5		1 018	763				
Miscellaneous printing machine operators	—	—	17	22	—	—	—	—					7		476	318				
Textile, apparel, and furnishings machine operators	—	—	33 603	24 971	21 195	19 715	369	329					37		3 821	2 667				
Knitting, looping, tying, and weaving machine operators	—	—	2	—	10	—	—	—					—		5	—				
Textile cutting machine operators	—	—	38	26	3	3	1	1					—		21	7				
Textile sewing machine operators	—	—	2 486	2 446	557	555	43	43					—		4	4				
Shoe machine operators	—	—	34	10	—	—	—	—					—		480	444				
Pressing machine operators	—	—	1 827	1 523	213	107	—	—					—		44	31				
Laundering and dry cleaning machine operators	18	18	29 174	20 937	20 347	18 885	325	285					28		3 113	2 037				
Miscellaneous textile machine operators	—	—	40	19	65	65	—	—					9		57	42				
Machine operators, assorted materials	47	11	19 134	8 417	1 071	367	1 661	984					346		19 323	5 440				
Canning and glass machine operators	—	—	15	9	6	6	6	6					—		201	101				
Packaging and filling machine operators	—	—	77	60	15	15	53	53					—		194	135				
Extruding and forming machine operators	—	—	21	6	—	—	20	13					—		—	—				
Mixing and blending machine operators	—	—	79	60	8	—	21	13					5		246	144				
Separating, filtering, and clarifying machine operators	—	—	88	68	13	4	86	32					—		102	14				
Compressing and compacting machine operators	—	—	47	41	7	7	33	20					—		72	39				
Peeling and joint sawing machine operators	—	—	529	39	45	—	48	10					2		838	50				
Roasting and baking machine operators, food	—	—	6	6	—	—	—	—					6		—	—				
Washing, cleaning, and picking machine operators	—	—	299	32	61	49	—	—					—		17	—				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Occupation	Professional and related services—Con.									
	Health services—Con.					Legal services				
	Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators and tenders, except precision—Con.										
Machine operators, except materials—Con.										
Folding machine operators	—	—	46	28	—	—	39	4	84	47
Forming, fitting, and oven operators	—	—	5 875	58	424	2	54	6	5 619	197
Cutting and grinding machine operators	—	—	4	—	7	7	7	—	71	19
Slicing and cutting machine operators	5	—	59	22	5	5	26	19	239	72
Motion picture projectionists	3	—	60	6	13	5	13	—	1 598	414
Photographic process machine operators	17	—	3 522	2 026	13	13	322	223	3 325	1 664
Photographic machine operators, n.e.c.	11	—	6 933	5 356	125	88	335	234	2 853	94
Machine operators, not specified	—	—	1 474	600	342	177	574	362	3 864	1 055
Fabricators, assemblers, and hand working occupations										
Welders and cutters	39	12	1 989	952	329	183	995	525	5 180	1 203
Solders and brazers	8	—	578	18	32	14	123	23	2 777	154
Assemblers	31	12	1 251	881	250	162	794	491	1 961	47
Hand cutting and fitting occupations	—	—	5	5	17	—	14	6	28	15
Hand molding, casting, and forming occupations	—	—	53	—	16	—	13	—	51	15
Hand painting, coating, and decorating occupations	—	—	—	—	—	—	—	—	20	20
Hand engraving and printing occupations	—	—	—	—	—	—	—	—	219	53
Hand grinding and polishing occupations	—	—	84	48	—	—	—	—	—	—
Miscellaneous hand working occupations	—	—	—	—	—	—	—	—	97	50
Production inspectors, testers, samplers, and weighers	—	—	591	300	103	79	296	133	2 333	1 020
Production inspectors, checkers, and examiners	—	—	359	172	24	19	202	95	605	211
Production testers	—	—	—	—	—	—	27	4	52	23
Production samplers and weighers	—	—	—	—	—	—	11	11	21	6
Graders and sorters, except agricultural	—	—	232	128	79	60	56	23	1 655	780
Transportation and material moving occupations										
Motor vehicle operators	94	38	13 542	2 158	2 079	535	5 954	2 040	189 650	110 253
Supervisors, motor vehicle operators	—	—	11 996	1 941	1 941	496	5 821	1 972	187 187	109 930
Truck drivers, heavy	57	18	3 177	25	442	13	65	19	422	81
Truck drivers, light	20	—	3 312	270	314	104	969	291	7 285	1 127
Driver-sales workers	—	—	2 246	147	76	20	3 197	1 115	5 795	999
Bus drivers	15	—	792	144	561	174	395	62	752	217
Taxicab drivers and chauffeurs	—	—	4 086	531	558	117	1 040	282	1 688 964	106 099
Porting for attendants	—	—	1 138	129	7	—	—	—	2 615	1 083
Motor transportation occupations, n.e.c.	—	—	13	—	7	5	29	—	1 294	286
Rail transportation occupations	—	—	47	8	—	—	—	—	60	18
Railroad conductors and yardmasters	—	—	2	—	—	—	—	—	51	6
Locomotive operating occupations	—	—	30	6	—	—	—	—	38	—
Railroad brake, signal, and switch operators	—	—	—	—	—	—	—	—	6	—
Rail vehicle operators, n.e.c.	—	—	15	—	—	—	—	—	—	—
Water transportation occupations	—	—	31	19	12	6	10	7	164	66
Ship captains and mates, except fishing boats	—	—	17	11	—	—	—	—	79	17
Salors and deckhands	—	—	3	3	6	6	—	—	84	49
Marine engineers	—	—	6	5	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	5	—	—	—	—	—	—	—
Material moving occupations	—	—	1 486	164	126	33	123	61	2 248	251
Supervisors, material moving equipment operators	—	—	190	29	13	—	7	7	175	37
Operating engineers	—	—	419	24	71	11	—	—	624	22
Longshore equipment operators	—	—	4	—	—	—	—	—	—	—
Hoist and winch operators	—	—	—	—	—	—	—	—	—	—
Crane and tower operators	—	—	19	—	—	—	—	—	12	—
Excavating and loading machine operators	—	—	37	—	—	—	—	—	41	—
Grader, dozer, and scraper operators	—	—	14	—	—	—	—	—	137	9
Industrial truck and tractor equipment operators	—	—	237	—	17	3	6	4	617	28
Miscellaneous material moving equipment operators	—	—	566	100	25	19	59	45	566	147

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction.)

United States

United States

	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total		Job training and vocational rehabilitation services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	5 761 252	4 033 279	2 251 924	1 151 985	60 696	30 362	170 946	137 327	132 393	92 240	1 079 759	831 121	86 459	47 736
Managerial and professional specialty occupations	3 804 554	2 593 527	1 070 903	431 720	36 437	16 150	67 087	55 486	108 777	74 791	516 991	377 280	33 252	18 542
Executive, administrative, and managerial occupations	317 571	125 565	220 243	96 105	7 340	2 912	5 813	3 796	10 635	5 290	130 194	82 365	9 619	4 383
Legislators, chief executives, and general administrators; public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Local	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Administrators, protective services	6	474	223	1 102	105	31	42	27	229	122	1 518	40	7	16
Financial managers	1 321	1 170	3 253	2 008	313	123	171	104	176	91	2 028	1 227	250	127
Personnel and labor relations managers	836	4 825	4 425	2 200	24	24	16	10	21	7	255	68	72	13
Purchasing managers	399	81	875	220	153	789	379	17	329	159	322	255	160	35
Managers, marketing, advertising, and public relations	719	329	789	379	2 687	972	234	153	1 905	672	24 027	21 284	354	159
Administrators, education and related fields	223 760	69 379	113 857	45 543	6	-	12	6	22	-	372	179	24	13
Managers, medicine and health	356	64	1 196	277	-	-	-	-	-	-	-	-	-	-
Managers, properties and real estate	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Postmasters and mail superintendents	11	11	56	23	2 535	1 019	4 281	2 775	6 489	3 412	82 624	47 945	5 921	2 603
Federal directors	68 927	42 872	57 053	24 592	2 321	954	4 258	2 775	5 916	3 116	77 891	44 112	5 865	2 589
Managers and administrators, n.e.c.	68 503	42 663	56 814	24 545	214	65	23	23	573	296	4 733	3 833	55	14
Self-employed	424	209	239	47	1 517	743	1 040	704	1 638	827	18 657	10 778	2 706	1 417
Management related occupations	19 236	10 975	38 516	21 861	1 298	164	314	224	478	201	6 076	3 238	416	190
Accountants and auditors	6 973	4 346	15 551	8 613	200	127	38	25	69	38	1 371	946	48	16
Underwriters	25	23	14	14	7	7	66	66	122	67	370	373	39	22
Other financial officers	950	503	6 753	4 181	832	361	441	300	758	405	8 425	5 240	2 056	1 116
Management analysts	543	272	9 308	5 677	-	-	-	-	-	-	-	-	-	-
Personnel, training, and labor relations specialists	5 972	3 484	-	-	-	-	-	-	-	-	-	-	-	-
Purchasing agents and buyers, farm products	-	-	3 975	2 011	90	28	98	65	65	30	674	280	83	33
Buyers, wholesale and retail trade except farm products	2 316	1 266	315	70	43	40	26	26	52	37	217	116	15	15
Purchasing agents and buyers, n.e.c.	49	25	349	21	-	-	-	-	12	13	177	255	28	28
Business and promotion agents	274	912	555	115	11	11	26	23	47	47	626	261	21	12
Construction inspectors	1 879													
Inspectors and compliance officers, except construction	235		704	490	11	5	31	23	23	36				
Management related occupations, n.e.c.														
Professional specialty occupations	3 486 983	2 467 962	850 660	335 615	29 097	13 238	61 274	51 890	97 942	69 501	386 797	294 915	23 633	14 159
Engineers, architects, and surveyors	1 902	341	11 584	1 092	99	17	16	9	32	12	138	28	161	7
Architects	505	104	1 999	148	99	17	23	9	198	89	949	376	132	24
Engineers	1 270	180	10 452	782	8	8	-	-	-	-	10	-	-	-
Engineers	6		187	25										
Aerospace engineers			324	44										
Metalurgical and materials engineers			28	7										
Mining engineers	5		20											
Petroleum engineers	7		384	72	7	7								
Chemical engineers			103	70										
Nuclear engineers			649	279	12	12								
Civil engineers	284	23	890	99	20	5	6	9	9	7	199	142	81	7
Agricultural engineers	12	4	3 160	51	20	5	9	6	53	7	345	208	7	17
Electrical and electronic engineers	234	32	4 420	24	5	5	9	9	13	9	61	7	8	8
Industrial engineers	220	42	1 149	16	24	5	-	-	14	8	113	13	30	7
Mechanical engineers	238	14	1 497	147	5	5	8	8	90	73	62	27	22	16
Marine engineers and naval architects	22	14	3 079	147	42	42	-	-	6	6				
Engineers, n.e.c.	242	51	133	90	90	101	242	159	122	47	1 460	860	50	30
Surveyors and mapping scientists	127	57												
Mathematical and computer scientists	1 938	939	8 746	2 749	101	15	242	132	40	40	9	163	20	15
Computer systems analysts and scientists	937	286	5 539	1 549	70	15	84	84	53	53	21	435	9	9
Operations and systems researchers and analysts	725	512	1 079	329	16	-	80	45	24	24	12	561	21	15
Actuaries	-	-	841	301	15	-	30	30	-	-	-	-	-	-
Statisticians	230	110	1 807	841	-	-	-	-	-	-	-	-	-	-

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.																			
Educational services—Con.										Social services									
Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total		Job training and vocational rehabilitation services							
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female						
Employed persons 16 years and over—Con.														19	Female				
Managerial and professional specialty occupations—Con.														99	Total				
Professional specialty occupations—Con.														5	Female				
Natural scientists														10	Total				
Physicists and astronomers														16	Female				
Chemists, except biochemists														18	Total				
Atmospheric and space scientists														90	Female				
Geologists and geodesists														163	Total				
Physical scientists, n.e.c.														18	Female				
Agricultural and food scientists														52	Total				
Biological and life scientists														70	Female				
Forestry and conservation scientists														40	Total				
Medical scientists														79	Female				
Health diagnosing occupations														27	Total				
Physicians														121	Female				
Dentists														192	Total				
Veterinarians														533	Female				
Optometrists														1 067	Total				
Podiatrists														443	Female				
Health diagnosing practitioners, n.e.c.														58	Total				
Health assessment and treating occupations														17	Female				
Registered nurses														8	Total				
Pharmacists														15	Female				
Dietitians														91	Total				
Therapists														91	Female				
Physicians' assistants														15	Total				
Teachers, postsecondary														23 245	Female				
Teachers, except postsecondary														21 314	Total				
Teachers, kindergarten and kindergarten														14 074	Female				
Teachers, elementary and secondary school														604	Total				
Teachers, special education														41	Female				
Teachers, n.e.c.														105	Total				
Counselors, educational and vocational														2 307	Female				
Librarians, archivists, and curators														2 201	Total				
Librarians														4 889	Female				
Archivists and curators														174	Total				
Social scientists and urban planners														939	Female				
Economists														705	Total				
Psychologists														132 516	Female				
Sociologists														122 890	Total				
Social planners, n.e.c.														2 879	Female				
Urban planners														2 272	Total				
Social recreation, and religious workers														9 951	Female				
Religious workers														7 354	Total				
Recreation workers														6 584	Female				
Clergy														739	Total				
Religious workers, n.e.c.														61	Female				
Lawyers and judges														38	Total				
Lawyers														79	Female				
Judges														401	Total				
Writers, artists, entertainers, and athletes														295	Female				
Authors														474	Total				
Technical writers														255	Female				
Designers														514	Total				
Musicians and composers														137	Female				
Actors and directors														231	Total				
Painters, sculptors, craft-artists, and artist printmakers														179	Female				
Photographers														309	Total				
Dancers														123 272	Female				
Artists, performers, and related workers, n.e.c.														7 015	Total				
Editors and reporters														191 105	Female				
Public relations specialists														184 647	Total				
Announcers														2 937	Female				
Athletes														2 032	Total				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
 (Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations	677 688	638 584	39 104
Technicians and related support occupations	11 728	6 965	4 763
Health technicians and technicians	3 114	2 926	188
Health laboratory technicians and technicians	277	242	35
Dental hygienists	349	342	7
Health and related technicians	20	11	9
Biological technicians	32	26	6
Licensed practical nurses	2 075	2 024	51
Health technicians and technicians, n.e.c.	361	281	80
Engineering and related technicians and technicians	2 259	476	1 783
Electrical and electronic technicians	1 170	122	1 048
Mechanical engineering technicians	39	34	5
Industrial engineering technicians	492	172	320
Engineering technicians, n.e.c.	442	67	375
Drafting occupations	105	75	30
Surveying and mapping technicians	318	204	114
Science technicians	37	8	29
Chemical technicians	120	82	38
Science technicians, n.e.c.	161	114	47
Technicians, except health, engineering, and science	6 037	3 359	2 678
Airplane pilots and navigators	5	—	5
Air traffic controllers	190	59	131
Broadcast equipment operators	2 553	1 055	1 498
Computer programmers	85	64	21
Tool programmers, numerical control	113	66	47
Legal assistants	3 091	2 115	976
Technicians, n.e.c.	24 925	23 205	1 720
Sales occupations	618	430	188
Supervisors and proprietors, sales occupations	611	430	181
Salaried	7	—	7
Self-employed	113	49	64
Sales representatives, finance and business services	88	29	59
Real estate sales occupations	25	20	5
Securities and financial services sales occupations	—	—	—
Advertising and related sales occupations	—	—	—
Sales occupations, other business services	—	—	—
Sales representatives, commodities, except retail	—	—	—
Sales engineers	—	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—
Sales workers, retail and personal services	23 516	22 355	1 161
Sales workers, commodities	1 872	1 199	673
Sales counter clerks	20	20	0
Cashiers	21 294	20 960	334
Street and door-to-door sales workers	305	161	144
News vendors	25	15	10
Sales related occupations	678	371	307
Display sales, promoters and models, sales	31	26	5
Auctioneers	6	—	6
Sales support occupations, n.e.c.	641	359	282
Administrative support occupations, including clerical	641 035	608 414	32 621
Supervisors, administrative support occupations	1 250	5 242	4 092
Supervisors, general office	5 031	3 148	1 883
Supervisors, computer equipment operators	333	1 488	1 155
Supervisors, financial records processing	1 434	1 035	399
Chief communications operators	23	15	8
Supervisors, distribution, scheduling, and adjusting clerks	289	74	215
Computer equipment operators	4 730	3 322	1 408
Computer operators	4 945	3 139	1 806
Peripheral equipment operators	145	—	145

Professional and related services—Con.

Educational services—Con.

Social services

	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total		Job training and vocational rehabilitation services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	677 688	638 584	765 278	563 875	13 474	10 642	92 622	77 102	17 631	14 689	203 678	177 435	15 364	12 381
Technicians and related support occupations	11 728	6 965	158 354	63 564	901	421	3 290	2 477	1 037	489	9 303	6 497	389	219
Health technicians and technicians	3 114	2 926	17 236	10 156	176	160	66	66	23	23	4 649	3 922	254	25
Health laboratory technicians and technicians	277	242	2 600	1 912	9	—	18	18	79	6	1 296	1 059	38	—
Dental hygienists	349	342	2 251	1 126	5	—	—	—	22	22	1 193	1 193	—	—
Health and related technicians	20	11	130	126	—	—	34	34	—	—	41	41	6	7
Biological technicians	32	26	270	185	—	—	—	—	—	—	62	38	—	—
Licensed practical nurses	2 075	2 024	940	913	2	—	—	—	11	11	2 340	2 281	149	149
Health technicians and technicians, n.e.c.	361	281	13 045	6 776	160	160	14	14	23	23	717	310	54	32
Engineering and related technicians and technicians	2 259	476	33 891	13 242	153	53	69	56	202	49	1 135	573	72	32
Electrical and electronic technicians	1 170	122	5 663	715	80	35	—	—	51	—	11	11	6	6
Mechanical engineering technicians	39	34	177	6	37	7	16	11	6	—	14	8	—	—
Industrial engineering technicians	492	172	2 509	1 611	36	11	2	2	100	44	452	404	16	6
Engineering technicians, n.e.c.	442	67	2 517	743	38	11	6	6	91	5	162	162	22	20
Drafting occupations	105	75	2 066	153	175	11	3	3	34	—	176	176	—	—
Surveying and mapping technicians	318	204	20 743	9 550	11	—	48	27	103	28	260	117	62	14
Science technicians	37	8	2 469	1 194	4	4	7	7	85	22	32	32	7	7
Chemical technicians	120	82	3 206	823	4	—	33	27	18	6	23	9	—	—
Science technicians, n.e.c.	161	114	15 068	7 533	561	197	3	3	63	350	205	99	55	14
Technicians, except health, engineering, and science	6 037	3 359	86 484	30 616	175	11	3	2 328	34	—	3 259	1 887	201	104
Airplane pilots and navigators	5	—	80	12	—	—	—	—	—	—	5	—	—	—
Air traffic controllers	190	59	1 546	403	21	9	22	78	26	—	89	36	14	6
Broadcast equipment operators	2 553	1 055	17 076	5 125	187	59	134	78	149	103	939	444	42	19
Computer programmers	85	64	227	106	10	—	71	37	24	17	23	10	—	—
Tool programmers, numerical control	113	66	589	338	—	—	2	2	21	17	379	200	24	8
Legal assistants	3 091	2 115	66 966	24 632	168	118	2 853	2 213	399	222	1 824	1 195	121	71
Technicians, n.e.c.	24 925	23 205	25 207	17 942	1 098	468	454	301	1 438	629	9 435	5 857	770	435
Sales occupations	618	430	1 818	827	90	35	138	97	23	23	439	345	66	42
Supervisors and proprietors, sales occupations	611	430	1 808	819	36	13	138	97	19	19	548	302	53	34
Salaried	7	—	10	8	—	—	3	3	20	23	91	63	13	8
Self-employed	113	49	564	215	—	—	—	—	109	7	57	29	—	—
Sales representatives, finance and business services	88	29	320	100	—	—	3	3	41	—	20	6	—	—
Real estate sales occupations	25	20	244	115	—	—	—	—	68	7	37	23	—	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales engineers	—	—	17	5	—	—	—	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	23 516	22 355	22 705	16 852	1 001	426	313	201	1 261	599	8 907	5 463	704	393
Sales workers, commodities	1 872	1 199	4 993	3 207	788	237	219	121	1 083	465	2 663	1 350	436	190
Sales counter clerks	20	20	198	114	—	—	46	46	58	52	1 928	1 245	144	132
Cashiers	21 294	20 960	15 593	12 684	137	128	35	29	113	82	4 870	2 847	124	71
Street and door-to-door sales workers	305	161	1 741	785	74	61	—	—	7	—	21	21	—	—
News vendors	25	15	180	82	—	—	—	—	—	—	—	—	—	—
Sales related occupations	678	371	103	43	7	7	—	—	20	—	30	—	—	—
Display sales, promoters and models, sales	31	26	49	29	7	7	—	—	14	—	8	—	—	—
Auctioneers	6	—	18	—	—	—	—	—	6	—	—	—	—	—
Sales support occupations, n.e.c.	641	359	36	14	—	—	—	—	—	—	22	—	—	—
Administrative support occupations, including clerical	641 035	608 414	581 717	482 389	11 475	9 753	88 878	74 324	15 156	13 571	184 740	165 079	14 005	11 577
Supervisors, administrative support occupations	1 250	5 242	16 983	10 833	341	225	1 919	1 445	1 480	304	7 817	5 183	384	375
Supervisors, general office	5 031	3 148	10 998	8 114	242	181	1 697	1 305	398	264	6 846	5 252	399	262
Supervisors, computer equipment operators	333	1 488	1 478	814	8	8	77	50	9	9	93	35	—	—
Supervisors, financial records processing	1 434	1 035	2 536	1 591	24	22	19	13	15	15	1 035	686	80	47
Chief communications operators	23	15	85	6	8	8	—	—	—	—	31	24	—	—
Supervisors, distribution, scheduling, and adjusting clerks	289	74	1 876	678	59	6	42	16	58	14	312	161	105	66
Computer equipment operators	4 730	3 322	14 967	6 999	244	150	527	405	175	114	1 574	1 192	79	58
Computer operators	4 945	3 139	14 188	6 697	233	140	533	387	175	114	1 522	1 167	65	55
Peripheral equipment operators	145	—	659	302	11	11	34	10	—	—	52	25	14	3

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Professional and related services—Con.

	United States				Educational services—Con.				Social services			
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.												
Administrative support occupations, including clerical—Con.												
Secretaries	281 438	279 451	252 950	247 163	4 957	4 897	10 254	10 018	7 977	7 877	78 242	76 078
Shorthand typists	250 348	248 798	207 935	204 348	4 121	4 071	4 004	3 957	6 973	6 915	53 333	52 703
Stenographers	2 193	2 145	2 208	2 168	786	750	88	80	77	77	1 611	1 576
Typists	28 897	28 508	42 807	40 847	786	776	6 162	5 981	927	885	18 298	17 799
Information clerks	7 842	7 184	35 687	27 902	908	776	713	560	1 054	923	12 009	10 664
Interviewers	7 411	7 369	1 787	1 348	132	77	60	54	81	50	1 731	1 222
Hotel clerks	462	278	685	397	25	—	20	20	7	7	404	223
Transportation ticket and reservation agents	6 160	5 869	27 170	22 417	719	667	511	418	843	760	8 708	8 209
Receptionists	809	668	6 045	3 720	32	32	32	68	123	106	1 166	1 010
Information clerks, n.e.c.	36 100	34 472	62 928	45 528	638	446	63 655	52 304	487	339	4 462	3 737
Records processing occupations, except financial	28	28	185	107	—	—	—	—	6	—	42	36
Classified clerks	84	73	212	167	39	31	104	89	12	12	85	72
Correspondence clerks	803	649	1 756	1 089	32	19	767	681	35	27	428	312
Order clerks	1 002	955	1 713	1 313	27	27	78	62	27	27	457	371
Personal clerks, except payroll and timekeeping	25 864	25 087	43 402	30 830	338	250	60 690	49 861	169	86	225	200
Library clerks	3 222	2 905	13 475	10 895	133	94	1 899	1 506	201	187	2 957	2 531
File clerks	5 097	4 775	2 185	1 627	69	25	117	105	37	18	268	215
Records clerks	37 799	35 655	28 708	25 215	1 042	937	1 617	1 412	1 244	1 125	20 845	18 464
Financial records processing occupations	30 988	29 544	22 992	20 309	898	811	1 437	1 258	1 081	969	17 787	16 019
Bookkeepers, accounting, and auditing clerks	4 965	4 827	3 340	3 117	59	59	85	64	64	64	386	374
Payroll and timekeeping clerks	306	270	1 120	963	18	11	62	52	30	30	387	374
Billing clerks	1 308	803	1 033	646	57	51	33	17	67	60	1 140	744
Cost and rate clerks	232	211	223	180	10	5	—	—	2	2	145	128
Billing, posting, and calculating machine operators	1 714	1 378	3 187	2 157	69	39	191	133	37	30	560	378
Duplicating, mail, and other office machine operators	1 011	847	2 351	1 675	17	12	96	73	19	12	201	114
Mail preparing and paper handling machine operators	146	123	198	113	—	—	—	—	—	—	83	70
Office machine operators, n.e.c.	557	408	638	369	52	27	95	60	18	18	276	194
Communications equipment operators	3 052	2 840	9 769	8 141	86	80	195	161	71	71	1 908	1 711
Telephone operators	3 018	2 827	9 709	8 116	86	80	180	146	71	71	1 897	1 709
Telegraphers	31	2	32	21	—	—	15	15	—	—	8	2
Communications equipment operators, n.e.c.	2 491	916	13 532	6 411	145	70	802	430	194	88	1 890	981
Mail and message distributing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, except mail carriers	1 618	669	11 270	5 553	102	43	373	212	133	68	1 458	860
Mail carriers, postal service	873	247	2 262	858	43	27	429	218	61	20	432	121
Mail clerks, except postal service	—	—	—	—	—	—	—	—	—	—	—	—
Managers	8 206	4 067	15 773	6 295	376	183	725	478	423	184	4 254	2 292
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—	—	—
Dispatchers	1 339	178	730	445	18	18	48	43	10	10	190	104
Production coordinators	1 320	982	2 726	1 831	64	51	142	115	98	98	1 255	819
Traffic, shipping, and receiving clerks	4 409	336	2 276	1 634	66	28	154	69	102	20	535	224
Stock and inventory clerks	—	—	8 516	2 750	196	74	347	230	94	33	1 596	674
Mail readers	761	691	243	142	7	7	21	21	7	4	359	212
Magazines, measures, and checkers	29	24	55	35	—	—	—	—	—	—	14	14
Expeditors	200	141	358	172	21	5	—	—	15	15	206	190
Material recording, scheduling, and distributing clerks, n.e.c.	149	111	633	366	4	—	—	—	14	14	83	55
Adjusters and investigators	1 663	1 301	2 203	1 429	109	77	127	96	100	92	11 934	9 537
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	795	577	1 128	721	63	36	79	61	67	59	1 495	1 027
Equality clerks, social welfare	168	140	85	50	6	6	12	12	18	18	10 070	8 332
Bill and account collectors	700	584	990	658	40	35	36	23	15	15	369	178
Miscellaneous administrative support occupations	248 750	232 566	125 150	94 316	2 560	1 872	8 113	6 882	2 914	2 424	44 245	37 862
General office clerks	47 004	43 532	81 262	63 943	1 290	1 022	6 304	5 357	1 366	1 181	22 974	19 431
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders	61	52	548	402	7	7	71	61	69	40	80	66
Data-entry keyers	3 179	3 029	8 725	7 878	249	222	534	473	159	159	1 893	1 799
Statistical clerks	3 591	3 386	5 835	4 523	103	71	205	155	137	115	1 997	1 755
Teachers' aides	180 300	172 376	12 002	6 518	341	247	120	93	274	204	6 872	6 653
Administrative support occupations, n.e.c.	14 615	10 191	16 778	11 052	570	303	879	743	909	706	10 429	7 958

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Professional and related services—Con.									
		Educational services—Con.				Social services					
	Elementary and secondary schools	Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.											
Supervisors, forestry and logging occupations	32	15	—	—	—	—	—	—	—	—	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	—	—	—	—	—	—	—	—	—	—	—
Trimmer cutting and logging occupations	32	15	41	—	—	—	—	—	—	—	—
Fishers, hunters, and trappers	67	67	24	2	—	—	—	2	—	5	5
Captains and other officers, fishing vessels	59	8	—	—	—	—	—	—	—	—	—
Fishers	—	59	4	—	—	—	—	—	—	—	—
Hunters and trappers	8	12	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations											
Mechanics and repairers	69 729	8 471	58 533	5 861	2 489	1 491	749	1 015	155	12 744	3 097
Supervisors, mechanics and repairers	26 991	1 253	18 038	1 256	1 269	730	437	419	40	2 506	292
Supervisors, mechanics and repairers	1 399	44	1 588	14	51	37	14	423	19	77	19
Mechanics and repairers, except supervisors	25 592	1 209	16 450	999	1 238	693	423	417	40	2 370	203
Vehicle and mobile equipment mechanics and repairers	11 764	1 119	2 890	135	672	34	5	108	—	547	32
Automobile mechanics	4 454	84	2 298	115	305	14	—	66	—	438	32
Bus, truck, and stationary engine mechanics	6 721	17	103	—	17	—	—	—	—	171	11
Aircraft engine mechanics	36	11	123	—	270	—	—	40	—	14	—
Small engine repairers	164	—	78	—	24	—	—	—	—	—	—
Automobile body and related repairers	188	7	127	5	34	7	—	2	—	5	—
Aircraft mechanics, except engine	—	—	8	—	14	5	—	—	—	12	—
Heavy equipment mechanics	132	—	111	11	6	8	—	—	—	39	—
Farm equipment mechanics	69	—	42	—	2	—	—	—	—	24	—
Industrial machinery repairers	2 523	48	2 741	89	98	64	—	9	—	500	—
Machinery maintenance occupations	69	—	61	6	86	—	—	—	—	105	8
Electrical and electronic equipment repairers	3 399	819	3 359	452	125	69	33	116	10	519	49
Electronic repairers, communications and industrial equipment	3 068	770	2 579	355	88	61	31	87	2	259	5
Data processing equipment repairers	32	5	409	51	—	—	—	12	2	12	12
Household appliances and power tool repairers	161	12	141	22	6	—	—	11	—	193	7
Telephone line installers and repairers	9	9	—	—	—	—	—	—	—	60	—
Telephone installers and repairers	47	23	127	18	12	8	2	4	—	55	—
Miscellaneous electrical and electronic equipment repairers	82	—	103	6	19	—	—	6	6	32	30
Heating, air conditioning, and refrigeration mechanics	2 370	12	2 504	13	41	15	—	9	—	—	—
Miscellaneous mechanics and repairers	5 467	211	4 895	304	216	511	385	148	30	73	8
Camera, watch, and musical instrument repairers	91	20	278	29	6	6	—	63	15	220	31
Locksmiths and safe repairers	673	38	995	48	—	—	—	—	—	16	—
Office machine repairers	331	7	179	7	14	7	—	5	5	—	—
Mechanical controls and valve repairers	29	6	57	7	—	—	—	—	—	10	—
Elevator installers and repairers	71	16	162	7	7	6	—	—	—	17	—
Millwrights	31	—	28	—	9	—	—	—	—	6	—
Specialized mechanics and repairers, n.e.c.	1 931	63	1 697	180	74	446	378	46	6	320	63
Not specified mechanics and repairers	2 310	61	1 499	38	106	46	7	54	4	342	7
Construction trades											
Supervisors, construction occupations	27 806	556	25 153	881	725	257	14	297	19	4 674	498
Supervisors, bricklayers, stonemasons, and tile setters	1 696	55	2 341	107	52	31	—	8	—	544	75
Supervisors, carpenters and related workers	—	—	21	—	5	7	—	—	—	39	—
Supervisors, electricians and power transmission installers	215	—	345	8	8	—	—	—	—	5	—
Supervisors, painters, paperhangers, and plasterers	261	10	418	7	7	—	—	—	—	6	—
Supervisors, plumbers, pipefitters, and steamfitters	84	—	93	—	—	—	—	—	—	6	—
Supervisors, n.e.c.	61	—	112	—	—	—	—	—	—	—	—
Construction trades, except supervisors	1 075	45	1 352	100	32	24	—	8	—	425	70
Bricklayers and stonemasons	26 110	501	22 812	774	678	226	14	289	19	4 130	423
Tile setters, hard and soft	537	17	536	26	80	5	—	6	—	176	35
Carpet installers	75	5	24	—	8	—	—	—	—	2	2
Carpenters	122	—	60	—	7	—	—	—	—	11	—
Drywall installers	8 361	225	7 290	296	276	104	8	113	5	1 866	163
Electricians	14	—	31	—	—	—	—	—	—	20	—
Electrical power installers and repairers	5 052	46	5 760	122	105	48	—	43	—	265	20
Painters, construction and maintenance	12	—	25	—	—	—	—	—	—	7	—
Pointers	6 013	173	4 510	231	102	49	—	45	2	1 067	154
Paperhangers	17	—	5	—	—	—	—	—	—	317	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.											
Educational services—Con.						Social services					
Elementary and secondary schools	Colleges and universities		Business, trade, and vocational schools		Libraries	Educational services, n.e.c.		Total	Job training and vocational rehabilitation services		
	Total	Female	Total	Female		Total	Female		Total	Female	
214	126	55	71	—	14	—	—	44	—	—	32
4 606	3 855	—	—	—	—	—	—	165	—	—	25
41	47	—	—	—	—	—	—	42	—	—	35
513	47	—	—	—	—	—	—	6	—	—	6
30	48	—	6	—	—	—	—	365	39	—	—
399	222	—	—	—	—	—	—	14	—	—	—
53	73	—	4	—	—	—	—	2	—	—	—
37	19	13	8	—	—	—	—	10	—	—	—
17	7	—	—	—	—	—	—	—	—	—	—
67	127	24	6	—	6	12	10	44	6	—	12
61	40	12	6	—	—	—	—	6	—	—	—
7	19	5	—	—	—	—	—	—	—	—	—
11	2	—	—	—	—	—	—	—	—	—	—
11	2	—	—	—	—	—	—	—	—	—	—
17	10	—	6	—	—	—	—	—	—	—	—
26	7	—	—	—	—	—	—	6	—	—	—
14 871	15 302	3 712	449	164	504	299	96	5 578	2 371	—	1 924
3 140	5 059	1 550	159	65	277	150	44	3 434	1 547	—	425
1 217	2 701	1 400	142	10	20	33	3	210	49	—	8
6	73	—	7	—	—	—	—	26	5	—	21
422	11	6	106	10	—	—	—	75	7	—	17
403	2 055	101	—	—	6	25	—	13	6	—	—
—	18	—	—	—	—	—	—	6	—	—	—
3	37	—	—	—	—	—	—	—	—	—	—
7	6	—	5	—	—	—	—	4	—	—	4
27	6	—	—	—	—	2	2	32	21	—	19
—	57	26	—	—	6	1	1	37	10	—	13
342	261	7	14	—	8	5	—	17	—	—	—
7	7	—	—	—	—	—	—	—	—	—	—
356	188	8	18	5	7	—	—	413	94	—	292
—	12	—	—	—	—	—	—	6	—	—	—
271	103	2	13	—	7	—	—	93	2	—	—
85	60	6	5	—	—	—	—	302	88	—	216
—	13	—	—	—	—	—	—	12	—	—	70
—	—	—	—	—	—	—	—	834	511	—	398
182	1 021	822	62	53	12	19	19	491	428	—	265
111	792	766	27	27	—	14	14	254	254	—	213
10	51	17	—	—	—	—	—	29	13	—	4
52	167	34	35	26	4	5	5	211	32	—	78
9	6	—	—	—	—	—	—	24	16	—	10
—	—	—	—	—	—	—	—	70	20	—	20
—	5	—	—	—	8	—	—	9	2	—	—
221	1 428	551	17	11	156	29	10	223	65	—	138
5	171	9	—	—	—	6	—	13	2	—	—
5	10	—	—	—	—	3	3	18	5	—	2
5	128	20	—	—	—	—	—	26	5	—	—
39	458	156	6	—	—	14	7	14	8	—	—
135	543	352	11	11	156	—	—	47	27	—	20
5	56	—	—	—	—	—	—	62	16	—	54
26	62	14	—	—	—	—	—	43	2	—	10
5 298	1 345	585	19	12	—	11	3	92	62	—	6
97	387	33	7	—	—	8	—	16	—	—	—
5 161	912	552	12	12	—	3	3	74	60	—	4
40	26	—	—	—	—	—	—	2	—	—	—
55	48	5	16	6	—	—	—	59	24	—	38
31	31	—	16	6	—	17	17	54	19	—	18
31	13	—	—	—	—	5	5	5	5	—	13

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and masonry finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precision stones and metals workers (jewellers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Porter-makers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.												
Educational services—Con.												
United States												
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Social services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Precision production occupations—Con.												
Plant and system operators	4 382	137	3 502	51	36	2	32	—	28	—	313	19
Water and sewage treatment plant operators	43	2	110	3	—	—	—	—	—	—	9	—
Power plant operators	44	9	224	10	6	2	4	—	—	—	11	—
Stationary engineers	4 223	120	3 066	27	25	—	28	—	28	—	282	12
Miscellaneous plant and system operators	72	6	102	11	5	—	—	—	—	—	11	7
Operators, fabricators, and laborers												
Machine operators, assemblers, and inspectors	202 833	115 749	47 259	13 213	2 525	661	2 710	1 453	1 444	518	48 356	21 363
Machine operators and tenders, except precision	13 855	4 809	23 842	8 310	1 624	466	1 579	1 032	673	293	18 447	6 135
Metalworking and plastic working machine operators	11 571	4 157	19 854	7 123	759	288	1 404	885	462	234	7 848	4 318
Lathe and turning machine set-up operators	—	34	19 239	32	52	20	4	4	7	7	251	86
Lathe and turning machine operators	—	—	124	14	19	—	—	—	7	7	8	8
Milling and planing machine operators	—	—	4	—	—	—	—	—	—	—	—	—
Punching and stamping press machine operators	4	2	10	—	7	—	—	—	—	—	52	18
Rolling machine operators	7	7	—	—	—	—	—	—	—	—	43	28
Drilling and boring machine operators	18	5	14	—	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Forging machine operators	29	13	60	9	20	20	4	4	—	—	137	21
Numerical control machine operators	7	7	8	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	8	—	19	7	6	—	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	19	—	22	7	7	—	—	—	—	—	11	11
Metal and plastic processing machine operators	138	106	372	192	7	—	13	—	57	15	50	24
Molding and casting machine operators	132	100	340	186	—	—	—	—	51	9	83	62
Metal planing machine operators	6	6	26	6	—	—	—	—	6	6	50	12
Heat treating equipment operators	—	—	6	—	—	—	—	—	—	—	—	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Woodworking machine operators	40	6	133	6	15	13	—	—	10	—	355	29
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Sawing machine operators	13	—	39	6	2	—	—	—	—	—	94	9
Shaping and joining machine operators	—	—	24	—	—	—	—	—	—	—	6	—
Nailing and tacking machine operators	—	—	—	—	—	—	—	—	—	—	18	—
Miscellaneous woodworking machine operators	27	6	70	—	13	13	—	—	10	—	237	20
Printing machine operators	2 922	1 254	6 189	2 613	188	69	301	153	115	54	609	218
Printing machine operators	2 678	1 093	4 920	1 746	152	45	194	75	90	34	533	169
Photoengravers and lithographers	45	23	116	28	9	9	11	3	6	6	14	9
Typesetters and compositors	126	103	840	625	27	15	6	6	19	14	16	5
Miscellaneous printing machine operators	73	35	313	214	—	—	90	69	214	54	46	35
Textile, apparel, and furnishings machine operators	2 093	1 598	1 621	964	41	39	12	12	54	54	2 130	1 870
Winding and twisting machine operators	—	—	5	—	—	—	—	—	—	—	—	—
Knitting, looping, taping, and weaving machine operators	14	4	7	7	—	—	—	—	—	—	—	—
Textile cutting machine operators	4	—	—	—	—	—	—	—	—	—	45	33
Textile sewing machine operators	278	265	160	137	29	29	6	6	7	7	547	500
Shoe machine operators	7	—	11	—	—	—	—	—	26	26	8	8
Pressing machine operators	50	50	42	27	5	5	—	—	—	—	57	52
Laundry and dry cleaning machine operators	1 723	1 262	1 356	763	7	5	6	6	21	21	1 439	1 252
Miscellaneous textile machine operators	17	17	40	25	—	—	—	—	—	—	22	15
Machine operators, assorted materials	6 286	1 159	11 278	3 314	466	147	1 074	716	219	104	4 370	2 029
Cementing and gaging machine operators	14	—	164	84	7	7	5	5	11	5	61	29
Packaging and filling machine operators	41	41	105	61	—	—	48	33	—	—	190	90
Extruding and forming machine operators	—	—	—	—	—	—	—	—	—	—	20	12
Mixing and blending machine operators	5	5	201	110	—	—	40	29	—	—	17	16
Separating, filtering, and clarifying machine operators	40	5	56	9	6	—	—	—	—	—	23	12
Compressing and compacting machine operators	13	6	35	20	—	—	24	13	—	—	134	26
Painting and paint spraying machine operators	486	8	311	42	30	—	—	—	11	—	99	42
Roasting and baking machine operators, food	—	—	—	—	—	—	—	—	—	—	—	—
Washing, cleaning, and picking machine operators	4	1	13	6	—	—	—	—	—	—	17	17

OCCUPATION BY INDUSTRY

Emphasized programs 16 years and over—Con.

633

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.

	Educational services—Con.						Social services					
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	10 220	2 348	13 877	3 529	571	159	495	280	385	115	14 279	5 687
Operators, fabricators, and laborers—Con.												
Handers, equipment cleaners, helpers, and laborers	107	41	178	80	9	9	6	6	6	—	97	48
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	329	9	113	13	30	—	6	—	—	—	24	13
Helpers, mechanics and repairers	772	25	446	43	10	—	—	—	20	—	145	11
Helpers, construction and extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, construction trades	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, surveyor	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	628	40	702	67	17	6	9	—	34	—	317	39
Production laborers	776	352	1 265	475	7	—	7	2	6	—	235	149
Freight, stock, and material handlers	1 009	146	2 954	664	64	15	154	100	33	7	1 556	230
Garbage collectors	136	7	262	26	—	—	—	—	—	—	107	6
Scrapers	—	—	—	—	—	—	—	—	—	—	—	—
Stock handlers and loggers	345	60	1 162	305	31	15	87	17	20	—	379	98
Machine feeders and operators	66	50	108	76	5	—	—	—	—	—	74	61
Freight, stock, and material handlers, n.e.c.	462	29	1 422	257	28	—	67	—	13	7	996	65
Garage and service station related occupations	197	7	154	6	10	—	—	—	—	—	37	3
Vehicle washers and equipment cleaners	359	101	598	224	36	—	13	—	2	—	289	143
Hand packers and packagers	655	387	257	130	76	22	61	22	60	24	3 544	1 718
Laborers, except construction	5 388	1 240	7 210	1 827	312	107	239	125	224	84	8 035	3 333
Job training and vocational rehabilitation services	—	—	—	—	—	—	—	—	—	—	—	—
Total	3 560	8 635	5 687	3 560	8 635	5 687	3 560	8 635	5 687	3 560	8 635	5 687

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Professional and related services—Con.

	Social services—Con.				Museums, art galleries, and zoos		Religious organizations		Membership organizations		Engineering, architectural, and surveying services	
	Child day care services		Residential care facilities, without nursing									
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	355 202	333 169	101 587	65 544	62 446	32 725	655 962	280 854	380 157	204 904	560 264	118 449
Managerial and professional specialty occupations	171 450	161 982	39 404	21 316	25 407	13 662	384 278	80 514	158 156	62 111	325 677	29 886
Executive, administrative, and managerial occupations	34 152	29 993	11 424	5 641	9 683	5 383	25 622	12 449	113 233	38 960	61 189	12 937
Legislators, chief executives, and general administrators, public administration	-	-	-	-	-	-	-	-	-	-	-	-
Administrators and officials, public administration	-	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-	-	-	-	-
Local	-	-	7	94	4	60	-	170	-	-	-	425
Administrators, protective services	-	-	160	130	128	64	674	342	1 238	444	1 326	426
Financial managers	93	47	287	130	110	64	-	-	1 213	513	-	-
Personnel and labor relations managers	319	287	-	-	-	-	-	-	-	-	-	-
Purchasing managers	25	6	17	9	32	325	52	88	129	53	505	73
Managers, marketing, advertising, and public relations	20	20	43	16	448	44	1 568	945	1 495	402	1 706	267
Administrators, education and related fields	23 055	20 715	200	125	88	44	-	-	339	238	128	6
Managers, medicine and health	-	-	-	-	-	-	-	-	-	-	-	-
Managers, properties and real estate	6	-	118	65	48	21	295	32	282	43	221	32
Postmasters and mail superintendents	-	-	-	-	-	-	-	-	-	-	-	-
Funeral directors	-	-	-	-	-	-	-	-	-	-	-	-
Managers and administrators, n.e.c.	9 742	8 275	9 483	4 590	7 705	4 208	18 490	9 028	93 082	32 379	40 713	7 935
Managers and administrators, n.e.c.	6 415	5 321	8 722	4 066	-6 416	3 445	17 106	8 532	93 082	32 379	38 069	7 537
Self-employed	3 327	2 954	761	524	1 289	763	1 384	875	-	-	2 644	398
Management related occupations	892	643	1 168	612	1 200	661	3 870	1 844	15 428	4 888	15 137	3 775
Accountants and auditors	370	222	476	228	376	237	2 230	1 075	3 777	1 863	5 576	2 223
Underwriters	-	-	-	-	-	-	-	-	-	-	-	-
Other financial officers	84	73	12	5	39	27	270	89	401	241	686	186
Management analysts	-	-	-	-	-	-	-	-	-	-	-	-
Personnel, training, and labor relations specialists	332	307	499	301	203	88	682	398	3 834	1 248	1 916	684
Purchasing agents and buyers, farm products	-	-	-	-	-	-	-	-	-	-	-	-
Buyers, wholesale and retail trade except farm products	-	-	-	-	-	-	-	-	-	-	-	-
Purchasing agents and buyers, n.e.c.	90	35	118	44	255	180	266	93	389	171	1 244	317
Business and promotion agents	7	6	6	4	142	77	155	75	4 804	611	2 478	19
Business and promotion agents	-	-	-	-	5	5	28	24	26	26	68	37
Construction inspectors	6	6	7	3	6	5	41	36	612	162	862	77
Inspectors and compliance officers, except construction	13	-	43	32	5	5	67	36	911	378	265	83
Management related occupations, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-
Professional specialty occupations	137 298	131 989	27 980	15 675	15 724	8 279	358 656	68 065	44 923	23 151	264 488	16 947
Engineers, architects, and surveyors	215	192	57	27	295	8	640	40	2 977	173	226 459	8 748
Architects	29	27	6	4	71	8	198	4	340	24	66 463	4 436
Engineers	164	146	48	20	215	36	412	36	2 518	149	141 418	3 944
Aerospace engineers	-	-	-	-	-	-	-	-	-	-	-	-
Mechanical and materials engineers	-	-	-	-	-	-	-	-	-	-	-	-
Mining engineers	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum engineers	-	-	-	-	-	-	-	-	-	-	-	-
Chemical engineers	-	-	-	-	-	-	-	-	-	-	-	-
Nuclear engineers	-	-	-	-	-	-	-	-	-	-	-	-
Civil engineers	-	-	17	-	35	-	82	6	521	17	45 401	1 319
Agricultural engineers	-	-	-	-	-	-	-	-	-	-	-	-
Electrical and electronic engineers	-	-	-	-	-	-	-	-	-	-	-	-
Industrial engineers	-	-	-	-	-	-	-	-	-	-	-	-
Mechanical engineers	-	-	24	-	67	-	43	-	296	24	15 816	371
Marine engineers and naval architects	-	-	-	-	-	-	-	-	219	21	2 534	160
Engineers, n.e.c.	6	6	3	-	6	-	113	23	292	43	12 522	277
Surveyors and mapping scientists	22	5	3	15	48	-	30	-	1 036	68	58 020	1 578
Mathematical and computer scientists	-	-	-	-	9	-	-	-	119	-	18 578	368
Computer systems analysts and scientists	-	-	-	-	-	-	-	-	679	382	4 127	716
Operations research analysts and statisticians	28	28	48	40	73	22	160	40	273	94	2 291	421
Actuaries	19	19	19	19	13	6	34	20	230	106	1 321	159
Statisticians	9	9	29	21	11	5	14	7	27	6	65	10
Mathematical scientists, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-
Surveyors and mapping scientists	-	-	-	-	-	-	-	-	-	-	-	-

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.													
Social services—Con.				Museums, art galleries, and zoos		Religious organizations		Membership organizations		Engineering, architectural, and surveying services			
Child day care services		Residential care facilities, without nursing		Social services, n.e.c.		Total		Female		Total		Female	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Managerial and professional specialty occupations—Con.													
Professional specialty occupations—Con.													
Natural scientists													
37	31	67	33	722	273	852	229	514	118	618	113	5 166	774
—	—	—	—	13	—	86	—	—	—	35	1	15	—
6	—	7	—	77	16	31	18	19	12	83	14	713	148
—	—	15	—	138	67	6	—	11	11	—	—	128	28
—	—	—	—	18	—	81	13	19	—	40	6	2 999	290
—	—	—	—	52	6	12	5	317	35	64	21	474	104
7	7	14	14	40	14	165	79	100	53	214	14	232	42
6	6	26	19	163	48	412	89	46	7	101	34	527	113
—	—	—	—	58	25	53	25	2	—	46	9	93	16
18	18	5	—	163	97	6	—	—	—	35	14	79	18
67	53	136	44	953	383	73	19	82	41	1 187	156	179	12
20	14	114	31	847	350	13	13	35	10	984	107	27	2
18	18	22	13	89	27	55	6	20	2	89	24	26	—
9	9	—	—	14	3	—	—	4	4	85	19	—	6
8	—	—	—	—	—	—	—	—	—	6	—	116	4
12	12	—	—	3	3	5	—	11	11	11	—	6	4
Health diagnosing practitioners, n.e.c.													
2 736	2 629	2 216	1 922	15 560	14 480	61	35	1 065	978	1 494	1 251	169	97
1 262	1 262	1 115	1 066	11 379	11 165	18	12	621	608	976	881	119	79
12	5	6	—	81	30	—	—	17	11	15	—	—	—
651	639	306	306	1 308	1 235	43	23	225	202	140	108	26	12
796	708	773	534	2 664	1 972	—	—	168	123	294	220	15	6
15	15	16	16	128	78	—	—	34	34	69	35	5	—
408	408	52	43	249	163	52	38	494	235	230	159	135	17
127 143	123 299	1 702	1 199	5 977	4 764	1 073	795	5 841	4 754	10 054	8 095	231	87
125 578	121 834	81	79	821	765	24	24	2 360	2 315	728	700	19	19
Teachers, except postsecondary													
—	—	—	—	—	—	—	—	—	—	—	—	—	—
159	139	368	298	730	613	5	5	72	44	90	70	17	17
1 406	1 326	1 253	822	4 426	3 386	1 044	768	3 409	2 395	9 236	7 325	195	68
1 049	816	1 054	590	2 939	1 593	174	119	1 130	750	1 370	972	32	32
285	233	102	45	526	419	7 609	4 243	1 618	1 296	1 058	864	643	518
237	199	89	45	474	378	1 341	847	1 317	1 082	792	695	563	502
48	34	13	—	52	41	6 268	3 396	301	214	266	169	62	16
325	239	810	286	3 950	2 034	651	269	1 193	283	1 498	492	2 364	611
24	24	77	27	322	144	24	6	384	77	786	226	1 555	429
296	210	668	221	2 888	1 570	16	9	516	88	135	46	68	14
—	—	28	6	200	107	—	—	83	26	13	7	13	13
5	5	37	32	161	84	611	254	160	83	512	213	159	42
—	—	—	—	379	129	—	—	50	9	52	—	569	113
4 603	3 850	21 257	11 215	158 230	104 139	195	153	310 328	39 644	8 521	4 251	391	123
4 152	3 584	20 054	10 727	153 890	101 973	138	116	3 690	2 201	2 013	1 367	95	51
207	134	942	727	1 569	1 075	29	29	624	286	4 902	2 600	116	43
143	53	228	33	1 826	583	13	8	263 172	12 736	1 196	78	142	5
101	79	33	33	945	508	15	8	42 842	24 421	410	206	38	24
48	26	71	27	1 540	699	94	33	3 471	254	2 184	562	696	85
48	26	71	27	1 540	699	94	33	3 471	254	2 184	562	696	85
Lawyers													
354	225	408	231	5 201	3 151	4 522	2 316	32 120	19 610	13 722	6 355	23 834	5 127
11	5	5	5	11	4	44	17	32 120	19 610	13 722	6 355	23 834	5 127
5	—	8	8	279	129	53	36	170	89	202	107	159	40
41	17	14	14	278	145	776	355	232	119	472	248	1 590	431
39	30	36	23	159	84	90	15	353	190	758	271	18 612	3 267
28	13	30	23	147	107	85	36	27 530	17 735	725	193	111	47
37	15	30	9	239	141	1 435	641	455	124	114	2	48	4
9	5	7	7	157	53	295	62	407	207	358	169	1 295	561
—	—	—	—	8	8	19	12	173	37	105	44	206	22
19	19	2	2	177	91	503	259	20	5	30	23	—	22
26	26	52	34	828	557	540	364	328	181	259	120	420	78
110	77	200	100	2 505	1 695	676	513	1 293	793	5 789	1 583	647	341
—	—	—	—	5	5	—	—	971	451	5	10	713	31
24	16	45	9	338	75	6	6	57	35	2 114	784	33	5

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A] 1700—Cont.

Professional and related services—Con.

United States

[illegible]

United States

Employed persons 16 years and over—Con.

	Social services—Con.				Museums, art galleries, and zoos		Religious organizations		Membership organizations		Engineering, architectural, and surveying services	
	Total	Male	Female	Total	Male	Female	Total	Male	Total	Female	Total	Female
Child day care services	158 328	149 248	30 931	43 676	30 931	83 287	65 248	11 631	4 340	60 363	3 807	1 314
Residential care facilities, without nursing	203	80	158	1 214	158	1 827	370	4 328	630	1 20	608	54
Social services, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—
Sherrifs, marshals, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—
Guardians	203	80	158	1 172	158	1 777	363	4 125	588	114	458	43
Guardians and police, except public service	149	39	140	1 144	140	1 478	223	4 105	588	73	443	43
Protective service occupations, n.e.c.	54	41	14	28	14	299	140	19	2	86	8	—
Service occupations, except protective and household	158 125	149 168	30 773	42 462	30 773	81 460	64 878	7 303	3 710	60 243	3 199	1 260
Food preparation and service occupations	15 032	14 455	9 606	12 387	9 606	8 634	6 896	482	385	10 745	233	161
Supervisors, food preparation and service occupations	489	449	66	866	66	1 111	531	54	14	10 040	27	6
Bakers	30	35	11	2 152	1 932	377	344	120	80	14	9	72
Waiters and waitresses	147	140	4	5 829	4 876	4 602	3 787	196	105	7 912	38	14
Cooks, except short order	12 227	11 941	6	14	6	22	22	2	—	15	—	—
Short-order cooks	25	25	—	40	—	46	46	82	54	88	12	7
Food counter, fountain and related occupations	130	124	400	443	400	329	322	18	12	239	33	33
Kitchen workers, food preparation	119	119	301	477	301	263	273	88	44	298	303	4
Waiters' and waitresses' assistants	1 865	1 676	1 671	2 551	1 671	2 020	1 438	111	71	2 034	32	16
Miscellaneous food preparation occupations	3 042	2 878	4 188	5 176	4 188	13 134	11 737	51	38	1 523	91	67
Health service occupations	268	256	29	1 083	29	1 89	184	18	5	1 08	7	9
Dental assistants	2 773	2 621	3 392	4 064	3 392	10 959	10 138	33	33	476	27	9
Nursing aides, orderlies, and attendants	5 114	5 114	3 809	7 763	3 809	15 727	7 104	2 949	557	16 973	51	792
Cleaning and building service occupations, except household	93	849	166	3 999	166	4 488	3 900	167	23	4 738	2 535	7
Supervisors, cleaning and building service workers	1 042	849	2 589	2 937	2 589	4 488	3 900	211	145	1 853	154	95
Maid and houseman	3 959	3 378	1 045	4 399	1 045	10 478	3 077	2 552	389	67 870	2 214	638
Janitors and cleaners	—	—	—	—	—	—	—	—	—	—	—	—
Elevator operators	20	20	—	15	—	131	12	19	—	83	15	—
Pest control occupations	134 937	129 534	12 942	17 136	12 942	43 992	39 139	3 621	2 730	19 674	340	240
Personal service occupations	147	132	21	54	21	65	12	6	6	43	22	15
Supervisors, personal service occupations	225	225	29	128	29	36	36	10	10	52	7	—
Barbers	292	275	193	196	193	387	208	66	35	203	407	69
Hairdressers and cosmetologists	87	87	68	113	68	121	58	2 660	1 996	66	5	—
Attendants, amusement and recreation facilities	6	6	12	12	12	116	72	327	242	63	4	—
Guides	—	—	—	—	—	—	—	—	—	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	27	27	—	—	—	21	9	7	—	6	—	—
Baggage porters and bellhops	545	527	1 182	1 440	1 182	32 629	29 727	15	15	191	14	12
Welfare service aides	132 741	127 501	9 833	13 381	9 833	7 820	6 536	140	101	14 223	3 399	80
Child care workers, except private household	1 053	971	1 582	1 779	1 582	2 792	2 481	390	325	4 819	92	60
Personal service occupations, n.e.c.	996	794	73	591	73	669	162	4 340	1 065	2 700	321	37
Farming, forestry, and fishing occupations	28	10	—	5	—	—	—	—	—	—	—	—
Farm operators and managers	957	778	73	586	73	664	157	2 420	506	2 688	18	18
Farm occupations, except managerial	5	5	—	—	—	5	—	—	—	—	234	13
Related agricultural occupations	916	741	73	571	73	550	87	1 140	117	2 642	71	5
Supervisors, related agricultural occupations	36	32	—	15	—	107	70	1 204	377	2 620	210	8
Groundskeepers and gardeners	—	—	—	—	—	—	—	—	—	—	14	—
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—	—	—	—
Animal sorters, except farm	—	—	—	—	—	—	—	—	—	—	—	—
Grocers and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Professional and related services—Con.

United States	Social services—Con.						Museums, art galleries, and zoos	Religious organizations		Membership organizations		Engineering, architectural, and surveying services
	Child day care services		Residential care facilities, without nursing		Social services, n.e.c.			Total		Total		
	Total	Female	Total	Female	Total	Female		Total	Female	Total	Female	
Farming, forestry, and fishing occupations—Con.												
Forestry and logging occupations	9	6					4		7		49	6
Supervisors, forestry and logging workers	3								5			
Timber chipping and logging occupations	6	6			5	5	1 871	527	94	39	49	6
Fishers, hunters, and trappers	2				5	5			7		20	
Captains and other officers, fishing vessels							1 871	527	84	39		
Fishers	2								3		20	
Hunters and trappers												
Precision production, craft, and repair occupations	902	466	2 145	353	5 809	1 205	1 995	308	12 377	657	13 868	704
Mechanics and repairers	151	7	493	16	1 056	104	413	33	1 773	59	2 866	108
Supervisors, mechanics and repairers	15		37		57	12	33		112		232	
Mechanics and repairers, except supervisors	136		456	16	999	92	380	33	1 661	59	2 634	108
Vehicle and mobile equipment mechanics and repairers	11		69	6	241	15	66		411	6	404	4
Automobile mechanics	5		63	6	199	15	13		289	6	245	4
Bus, truck, and stationary engine mechanics	6				5		6		22		77	
Aircraft engine mechanics					7		34		33		38	
Small engine repairers			6		15		2		25		9	
Automobile body and related repairers					15				13		11	
Aircraft mechanics, except engine					15		11		17		24	
Heavy equipment mechanics									5			
Farm equipment mechanics												
Industrial machinery repairers	21		160		214	24	73	22	170		260	17
Machinery maintenance occupations	29		48	2	239	10	45		54		37	
Electrical and electronic equipment repairers									24		804	24
Electronic repairers, communications and industrial equipment	15		14		147	5	39		108		554	17
Date processing equipment repairers	14		32		87	5			30		101	
Household appliance and power tool repairers									25		18	
Telephone line installers and repairers			2	2			6		9		45	7
Telephone installers and repairers											39	
Miscellaneous electrical and electronic equipment repairers												
Heating, air conditioning, and refrigeration mechanics									17		47	
Miscellaneous mechanics and repairers	75		20		28		29		38		125	15
Census, watch, and musical instrument repairers			159	8	277	43	167	11	799	29	1 004	48
Locksmiths and safe repairers					12	12	5		20		94	6
Office machine repairers					6							
Mechanical controls and valve repairers	7		6		10				7		31	
Elevator installers and repairers												
Millwrights	25		48	8	118	31	106	11	401		116	9
Specialized mechanics and repairers, n.e.c.	43		103		121		56		239	22	273	3
Not specified mechanics and repairers											447	32
Construction trades	221	19	941	42	2 334	281	1 018	98	8 393	144	4 345	114
Supervisors, construction occupations	63	12	124	2	318	47	107	7	481		1 977	44
Supervisors, brickmasons, stonemasons, and tile setters	9				66	5	8		56		16	
Supervisors, carpenters and related workers			14				5		86		202	22
Supervisors, electricians and power transmission installers												
Supervisors, painters, paperhangers, and plasterers												
Supervisors, plumbers, pipefitters, and steamfitters												
Supervisors, n.e.c.												
Construction trades, except supervisors	54	12	92	2	252	42	94	7	326	6	1 747	22
Brickmasons and stonemasons	158	7	817	40	2 016	234	911	91	7 912	144	2 368	70
Tile setters, hard and soft			16		7		31		322		19	
Carpenters	2		211		9						5	
Drywall installers	78	7	28	22	1 099	114	512	32	2 026	61	512	14
Electricians	12		69		119	18	90		2 175	14	828	18
Electrical power installers and repairers					9				10		100	
Painters, construction and maintenance	49		390	18	311	53	179	59	620	32	189	21
Paperhangers									24			

Social services—Con.

Employed persons 16 years and over—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A1.

Professional and related services—Con.

[illegible]

United States

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders except precision—Con.
Machine operators, assemblers, and inspectors—Con.

Rolling machine operators
Punching, blank, and over operators, except food
Grinding and grinding machine operators
Slicing and cutting machine operators
Motion picture projectionists
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified
Fabricators, assemblers, and hand working occupations
Welders and cutters
Solderers and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating, and decorating occupations
Hand engraving and printing occupations
Hand engraving and polishing occupations
Miscellaneous hand working occupations
Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural
Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.
Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.
Water transportation occupations
Ship captains and mates, except fishing boats
Salors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders
Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Professional and related services—Con.

Social services—Con.			Museums, art galleries, and zoos			Religious organizations			Membership organizations			Engineering, architectural, and surveying services		
Child day care services			Residential care facilities, without nursing			Social services, n.e.c.								
Total	Female		Total	Female		Total	Female		Total	Female		Total	Female	
14	14	—	5	5	—	39	22	—	16	—	—	—	—	—
14	14	—	65	—	—	29	7	—	—	—	—	68	—	—
7	7	—	14	7	—	36	1	—	41	—	—	10	—	—
—	—	—	—	—	—	7	7	—	18	—	—	36	—	—
—	—	—	—	—	—	91	34	—	76	—	—	24	—	—
28	28	—	28	20	—	119	88	—	461	—	—	950	—	—
42	11	—	102	46	—	485	225	—	60	—	—	702	—	—
96	55	—	188	77	—	1 103	569	—	759	—	—	1 053	—	—
49	37	—	12	—	—	30	—	—	34	—	—	1 782	—	—
47	18	—	169	70	—	955	—	—	668	—	—	836	—	—
—	—	—	—	—	—	13	13	—	16	—	—	36	—	—
—	—	—	—	—	—	14	—	—	20	—	—	22	—	—
—	—	—	—	—	—	23	—	—	13	—	—	390	—	—
—	—	—	—	—	—	13	8	—	9	—	—	16	—	—
—	—	—	—	—	—	44	29	—	8	—	—	31	—	—
30	18	—	35	29	—	777	464	—	19	—	—	11	—	—
18	6	—	7	7	—	285	125	—	14	—	—	141	—	—
—	—	—	—	—	—	—	—	—	—	—	—	328	—	—
—	—	—	—	—	—	—	—	—	—	—	—	82	—	—
12	12	—	28	22	—	492	339	—	5	—	—	1	—	—
3 333	2 169	—	800	234	—	9 120	3 075	—	359	—	—	1 669	—	—
3 322	2 162	—	777	234	—	8 973	3 059	—	270	—	—	870	—	—
—	—	—	12	—	—	44	18	—	—	—	—	7	—	—
372	225	—	114	37	—	2 099	596	—	78	—	—	515	—	—
82	41	—	47	2	—	1 588	469	—	56	—	—	245	—	—
8	8	—	7	7	—	100	33	—	6	—	—	8	—	—
2 470	1 639	—	254	87	—	1 544	705	—	31	—	—	22	—	—
390	249	—	329	87	—	2 901	1 230	—	41	—	—	67	—	—
—	—	—	14	14	—	95	6	—	58	—	—	6	—	—
—	—	—	—	—	—	2	2	—	—	—	—	—	—	—
—	—	—	—	—	—	5	—	—	15	—	—	21	—	—
—	—	—	—	—	—	—	—	—	—	—	—	14	—	—
—	—	—	—	—	—	5	—	—	15	—	—	5	—	—
—	—	—	—	—	—	—	—	—	—	—	—	19	—	—
—	—	—	—	—	—	—	—	—	—	—	—	10	—	—
—	—	—	—	—	—	—	—	—	—	—	—	33	—	—
11	7	—	23	—	—	142	16	—	62	—	—	683	—	—
—	—	—	8	—	—	2	2	—	27	—	—	28	—	—
—	—	—	—	—	—	11	—	—	—	—	—	317	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	7	—	—	—	—	—	—	—	—	—	—	73	—	—
4	4	—	15	—	—	28	—	—	—	—	—	58	—	—
—	—	—	—	—	—	53	—	—	—	—	—	23	—	—
—	—	—	—	—	—	37	8	—	—	—	—	86	—	—
—	—	—	—	—	—	—	—	—	28	—	—	90	—	—

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Professional and related services—Con.

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Cen.
Handlers, equipment cleaners, helpers, and laborers
Service workers, handlers, equipment cleaners, and laborers,
n.e.c.
Helpers, mechanics and repairers
Helpers, construction and extractive occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations

Construction laborers
Production helpers
Freight, stock, and material handlers
Garbage collectors
Shoeshiners
Stock
Helpers and loggers
Machine feeders and operators
Freight, stock, and material handlers, n.e.c.

George and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Occupation	Total		Male		Female	
	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	432 120	207 432	123 344	50 443	138 299	63 747
Managerial and professional specialty occupations	271 537	71 616	57 768	17 062	112 256	49 093
Executive, administrative, and managerial occupations	266 394	70 136	19 487	3 024	8 150	3 024
Legislators, chief executives, and general administrators; public administration	-	-	-	-	-	-
Administrators and officials, public administration	-	-	-	-	-	-
Federal	-	-	-	-	-	-
State	-	-	-	-	-	-
Local	-	-	-	-	-	-
Administrators, protective services	3 157	595	407	80	123	52
Financial managers	664	244	9	6	11	6
Personal and labor relations managers	-	-	-	-	-	-
Purchasing managers	26	6	468	153	30	10
Managers, marketing, advertising, and public relations	510	95	179	74	242	36
Administrators, education and related fields	37	11	279	114	28	13
Managers, medicine and health	-	-	-	-	-	-
Managers, properties and real estate	19	-	61	6	36	15
Postmasters and mail superintendents	-	-	-	-	-	-
Federal directors	-	-	11	6	-	-
Managers and administrators, n.e.c.	12 624	6 558	12 644	4 700	5 521	2 164
Salaried	10 651	5 901	12 446	4 645	4 719	1 883
Self-employed	1 973	657	218	55	802	281
Management related occupations	249 357	62 627	4 849	1 930	2 015	685
Accountants and auditors	234 183	56 172	2 147	749	667	222
Underwriters	25	6	-	-	161	64
Other financial officers	11 724	5 600	269	353	379	184
Management assistants	2 295	284	333	135	91	39
Personal, training, and labor relations specialists	2 767	426	1 136	649	419	181
Purchasing agents and buyers, farm products	-	-	-	-	-	-
Buyers, wholesale and retail trade except farm products	-	-	-	-	-	-
Business and promotion agents	-	-	-	-	-	-
Construction inspectors	54	23	202	54	118	42
Inspectors and compliance officers, except construction	43	23	129	54	15 998	9 691
Management related occupations, n.e.c.	56	22	-	-	-	-
Professional specialty occupations	5 143	1 480	38 281	9 754	104 105	46 069
Engineers, architects, and surveyors	676	65	13 072	466	1 373	95
Architects	87	13	122	21	125	22
Engineers	573	65	12 923	445	1 214	73
Aerospace engineers	5	-	1 699	62	4	581
Mechanical and materials engineers	5	-	194	23	64	45
Mining engineers	-	-	3	-	514	18
Petroleum engineers	-	-	15	-	5	-
Chemical engineers	6	-	329	50	1 286	80
Nuclear engineers	2	-	95	12	809	28
Civil engineers	154	7	510	26	32 158	866
Agricultural engineers	138	18	4 162	85	212	11
Electrical and electronic engineers	31	7	408	37	16 334	257
Mechanical engineers	82	7	1 308	92	7 499	808
Industrial engineers	-	-	-	-	6 103	181
Marine engineers and naval architects	190	26	4 054	115	27 327	790
Engineers, n.e.c.	16	-	27	-	2 916	159
Surveyors and mapping scientists	-	-	-	-	-	-
Mathematical and computer scientists	1 423	360	3 508	906	50 968	14 827
Computer systems analysts and scientists	872	231	1 675	472	23 415	5 702
Operations and systems researchers and analysts	340	79	770	164	16 081	4 915
Actuaries	155	19	-	-	1 932	73
Statisticians	50	31	447	156	8 995	3 641
Mathematical scientists, n.e.c.	6	-	616	113	2 257	496

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.				Public administration			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Executive and legislative offices	
	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.								
Managerial and professional specialty occupations—Con.								
Professional specialty occupations—Con.								
Natural scientists	95	2	9 822	1 824	4 965	553	62 255	9 490
Physicians and surgeons	18	1	2 441	126	634	35	3 740	245
Chemists, except biochemists	25	1	2 685	661	615	116	8 942	1 958
Atmospheric and space scientists	22	1	893	66	268	14	3 474	290
Geologists and geodesists	13	1	381	51	760	146	7 580	817
Physical scientists, n.e.c.	8	1	296	33	74	10	3 578	765
Agricultural and food scientists	9	1	1 921	64	444	194	6 482	971
Biological and life scientists	—	—	34	2	11	2	10 655	2 196
Forestry and conservation scientists	—	—	382	13	78	25	15 172	1 472
Medical scientists	—	—	454	60	241	104	2 682	920
Health diagnosing occupations	29	13	378	47	152	69	9 141	1 575
Dentists	6	1	378	47	152	69	6 002	1 248
Veterinarians	17	7	62	13	25	14	1 277	122
Optometrists	6	1	5	—	2	—	1	708
Podiatrists	—	—	—	—	—	—	53	181
Health diagnosing practitioners, n.e.c.	—	—	—	—	26	13	60	17
Health assessment and treating occupations	51	24	1 132	980	498	293	35 021	25 462
Registered nurses	46	29	691	600	108	85	19 628	18 665
Pharmacists	—	—	117	69	27	15	930	214
Dietitians	—	—	364	305	299	195	3 104	2 689
Therapists	5	—	2	—	4	—	5 287	3 446
Physicians' assistants	—	—	148	77	57	25	6 072	448
Teachers, postsecondary	14	—	756	535	1 030	204	2 400	860
Teachers, except postsecondary	173	123	26	26	11	11	20 040	9 376
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	741	668
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—
Teachers, n.e.c.	—	—	—	—	—	—	—	—
Counselors, educational and vocational	173	123	226	190	40	22	1 973	1 135
Librarians, archivists, and curators	13	13	304	317	123	99	17 326	7 573
Archivists and curators	256	219	578	538	156	104	18 368	7 896
Archivists and curators	—	—	135	473	118	103	7 355	4 983
Social scientists and urban planners	175	69	2 119	921	7 060	2 684	5 706	4 300
Economists	146	54	333	138	254	52	34 154	9 382
Psychologists	14	14	1 062	570	5 898	2 282	10 583	2 225
Sociologists	—	—	75	23	32	7	7 659	2 907
Social scientists, n.e.c.	15	15	430	185	856	336	4 812	1 497
Urban planners	—	—	19	5	20	7	10 278	2 393
Social, recreation, and religious workers	103	41	1 283	995	341	194	154 610	92 819
Social workers	45	183	1 183	910	244	148	149 191	90 755
Recreation workers	11	48	48	48	57	28	3 706	1 774
Clergy	23	—	22	22	18	11	1 448	97
Religious workers, n.e.c.	6	—	30	15	22	11	1 265	97
Lawyers and judges	102	125	471	104	266	49	95 075	20 496
Judges	102	125	471	104	266	49	47 489	15 823
Writers, artists, entertainers, and athletes	1 033	395	4 284	2 033	85 061	40 038	27 576	13 571
Authors	53	18	266	152	14 067	14 067	43 511	18 571
Technical writers	124	49	692	267	1 724	870	995	386
Designers	173	26	479	146	1 814	806	4 627	1 845
Musicians and composers	26	7	37	24	2 459	428	3 407	811
Actors and directors	7	—	47	9	54	13	810	337
Painters, sculptors, craft-artists, and artist printmakers	202	43	612	365	43 270	21 853	3 717	1 863
Photographers	40	10	217	41	487	155	3 416	529
Dancers	—	—	—	—	83	37	70	60
Artists, performers, and related workers, n.e.c.	6	6	199	40	1 242	609	976	414
Editors and reporters	284	139	1 041	647	1 948	1 009	5 558	2 756
Public relations specialists	118	97	664	378	330	144	13 498	6 328
Announcers	—	—	—	—	78	35	230	45
Athletes	—	—	30	14	18	12	1 330	426
General government, n.e.c.								
Local government								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

	Professional and related services—Cont.						Public administration					
	Accounting, auditing, and bookkeeping services			Noncommercial educational and scientific research			Miscellaneous professional and related services			Executive and legislative offices		
	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
Employed persons 16 years and over—Cont.	157 433	134 423	50 656	29 828	12 773	1 893 969	1 331 806	35 014	43 849	537 833	397 809	244 123
Technical, sales, and administrative support occupations	2 541	1 087	21 928	6 537	1 666	261 282	84 953	2 499	5 338	50 413	16 808	19 420
Technicians and related support occupations	72	41	1 056	621	116	12 089	6 737	38	38	2 493	1 514	6 221
Health occupations	—	—	255	170	47	2 572	1 357	17	19	435	236	136
Clinical laboratory technicians and technicians	—	—	6	6	—	376	364	—	—	45	72	34
Dental hygienists	2	2	23	23	—	491	491	—	—	85	40	9
Health record technicians and technicians	6	—	36	16	2	250	118	—	—	42	18	30
Radiologic technicians	26	7	106	106	12	3 124	2 816	4	4	889	823	280
Licensed practical nurses	38	32	630	300	55	6 054	1 623	7	15	970	305	434
Health technicians and technicians, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and related technicians and technicians	442	111	7 759	1 673	361	71 904	12 328	83	269	19 392	3 531	8 073
Electrical and electronic technicians	87	30	2 508	201	41	27 465	3 388	15	69	4 864	716	1 111
Industrial engineering technicians	—	—	—	—	10	472	88	4	12	93	20	4
Mechanical engineering technicians	14	12	357	8	5	749	88	—	—	230	17	36
Engineering technicians, n.e.c.	37	12	3 930	1 278	154	17 835	3 773	22	31	4 711	975	1 714
Drafting occupations	286	45	829	159	143	16 506	4 206	32	140	7 397	1 563	4 451
Surveying and mapping technicians	38	10	102	27	8	6 823	785	10	17	2 097	244	1 155
Science technicians	20	14	1 725	479	145	10 375	3 041	—	32	2 032	659	430
Biological technicians	—	—	383	106	57	3 970	1 102	—	18	574	141	74
Chemical technicians	6	—	402	93	20	1 497	403	—	—	379	303	133
Science technicians, n.e.c.	14	14	940	280	68	4 908	1 536	—	14	1 077	303	223
Technicians, except health, engineering, and science	1 987	921	11 408	3 764	1 044	166 114	62 827	2 498	4 999	28 496	11 104	10 024
Airplane pilots and navigators	—	—	67	—	8	2 536	65	—	—	313	—	51
Air traffic controllers	—	—	103	25	—	40 131	5 922	24	52	2 890	1 079	777
Broadcast equipment operators	9	714	2 319	749	183	40 838	24 103	34	34	1 294	356	356
Computer programmers	1 677	23	39	23	12	29 635	10 645	103	252	10 859	3 854	4 102
Tool programmers, numerical control	23	7	119	87	5	735	289	—	15	246	84	50
Legal assistants	135	127	119	87	58	12 014	7 417	1 755	3 316	2 524	1 537	1 035
Technicians, n.e.c.	143	73	8 761	2 880	790	40 225	14 386	600	1 316	10 370	3 998	2 327
Sales occupations	2 044	678	1 999	782	624	33 359	18 898	342	544	10 075	5 475	5 054
Supervisors and proprietors, sales occupations	207	52	112	29	44	3 041	940	40	62	719	148	233
Salaried	136	29	105	29	26	3 041	940	40	62	719	148	233
Self-employed	71	23	7	—	18	—	—	—	—	—	—	—
Sales representatives, finance and business services	1 516	378	449	106	485	7 390	1 392	18	51	2 324	407	230
Insurance sales occupations	—	—	17	—	—	—	—	—	—	—	—	—
Real estate sales occupations	16	2	17	—	19	7 176	1 297	18	51	2 282	384	1 355
Securities and financial services sales occupations	302	85	—	—	13	95	54	—	—	20	14	12
Advertising and related sales occupations	1 198	291	432	106	452	119	41	—	—	22	9	2
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	16	—	7	—	17	389	154	—	21	173	71	73
Sales engineers	—	—	—	—	—	31	—	—	—	23	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	295	244	812	628	109	358	154	—	21	150	71	73
Sales workers, commodities	—	—	—	—	—	22 237	16 344	278	404	6 739	4 800	3 295
Sales counter clerks	8	—	6	—	—	7 372	4 022	79	156	2 113	1 050	694
Cashiers	210	174	83	79	35	165	81	—	—	4 253	3 509	2 452
Street and door-to-door sales workers	66	61	723	549	74	13 723	11 617	180	223	163	103	51
News vendors	11	9	—	—	—	434	287	7	13	159	125	82
Sales related occupations	10	4	19	19	6	302	68	6	6	120	29	83
Demonstrators, promoters and models, sales	—	—	7	7	6	43	21	—	—	38	21	19
Auctioneers	6	—	—	—	—	12	—	—	—	—	—	—
Sales support occupations, n.e.c.	4	4	—	—	6	227	47	6	6	82	8	64
Administrative support occupations, including clerical	152 848	132 658	27 329	22 509	10 483	1 599 328	1 227 975	32 063	37 967	475 345	375 526	219 619
Supervisors, administrative support occupations	7 176	3 518	1 703	772	340	188 295	71 334	1 294	2 384	46 517	19 030	15 756
Supervisors, general office	2 380	1 052	1 065	565	316	166 581	63 052	1 142	2 149	39 538	16 354	12 879
Supervisors, computer equipment operators	259	126	276	27	14	5 332	1 351	43	74	4 728	1 394	1 628
Supervisors, financial records processing	4 458	1 400	290	150	18	12 670	5 778	80	132	4 256	1 949	1 973
Chief communications operators	6	—	22	—	7	304	278	17	17	21	132	66
Supervisors, distribution, scheduling, and adjusting clerks	73	—	109	—	35	3 208	875	12	12	784	201	225
Computer equipment operators	6 293	5 075	1 179	686	284	39 185	23 219	495	722	13 483	7 518	5 679
Computer operators	5 999	4 842	1 136	638	222	37 254	22 079	457	661	12 775	7 117	5 388
Peripheral equipment operators	294	233	43	28	12	1 931	1 140	38	61	718	401	291

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.	46 644	58 275	70 506	84 499	100 64	117 70	135 43	153 167	171 178	189 194	207 207	225 225	243 243	261 261	279 279	297 297	315 315	333 333	351 351	369 369	387 387	405 405	423 423	441 441	459 459	477 477	495 495	513 513	531 531	549 549	567 567	585 585	603 603	621 621	639 639	657 657	675 675	693 693	711 711	729 729	747 747	765 765	783 783	801 801	819 819	837 837	855 855	873 873	891 891	909 909	927 927	945 945	963 963	981 981	999 999	1 017	1 035	1 053	1 071	1 089	1 107	1 125	1 143	1 161	1 179	1 197	1 215	1 233	1 251	1 269	1 287	1 305	1 323	1 341	1 359	1 377	1 395	1 413	1 431	1 449	1 467	1 485	1 503	1 521	1 539	1 557	1 575	1 593	1 611	1 629	1 647	1 665	1 683	1 701	1 719	1 737	1 755	1 773	1 791	1 809	1 827	1 845	1 863	1 881	1 899	1 917	1 935	1 953	1 971	1 989	2 007	2 025	2 043	2 061	2 079	2 097	2 115	2 133	2 151	2 169	2 187	2 205	2 223	2 241	2 259	2 277	2 295	2 313	2 331	2 349	2 367	2 385	2 403	2 421	2 439	2 457	2 475	2 493	2 511	2 529	2 547	2 565	2 583	2 601	2 619	2 637	2 655	2 673	2 691	2 709	2 727	2 745	2 763	2 781	2 799	2 817	2 835	2 853	2 871	2 889	2 907	2 925	2 943	2 961	2 979	2 997	3 015	3 033	3 051	3 069	3 087	3 105	3 123	3 141	3 159	3 177	3 195	3 213	3 231	3 249	3 267	3 285	3 303	3 321	3 339	3 357	3 375	3 393	3 411	3 429	3 447	3 465	3 483	3 501	3 519	3 537	3 555	3 573	3 591	3 609	3 627	3 645	3 663	3 681	3 699	3 717	3 735	3 753	3 771	3 789	3 807	3 825	3 843	3 861	3 879	3 897	3 915	3 933	3 951	3 969	3 987	4 005	4 023	4 041	4 059	4 077	4 095	4 113	4 131	4 149	4 167	4 185	4 203	4 221	4 239	4 257	4 275	4 293	4 311	4 329	4 347	4 365	4 383	4 401	4 419	4 437	4 455	4 473	4 491	4 509	4 527	4 545	4 563	4 581	4 599	4 617	4 635	4 653	4 671	4 689	4 707																																																																																				
Administrative support occupations, including clerical—Con.	38 275	46 644	58 275	70 506	84 499	100 64	117 70	135 43	153 167	171 178	189 194	207 207	225 225	243 243	261 261	279 279	297 297	315 315	333 333	351 351	369 369	387 387	405 405	423 423	441 441	459 459	477 477	495 495	513 513	531 531	549 549	567 567	585 585	603 603	621 621	639 639	657 657	675 675	693 693	711 711	729 729	747 747	765 765	783 783	801 801	819 819	837 837	855 855	873 873	891 891	909 909	927 927	945 945	963 963	981 981	999 999	1 017	1 035	1 053	1 071	1 089	1 107	1 125	1 143	1 161	1 179	1 197	1 215	1 233	1 251	1 269	1 287	1 305	1 323	1 341	1 359	1 377	1 395	1 413	1 431	1 449	1 467	1 485	1 503	1 521	1 539	1 557	1 575	1 593	1 611	1 629	1 647	1 665	1 683	1 701	1 719	1 737	1 755	1 773	1 791	1 809	1 827	1 845	1 863	1 881	1 899	1 917	1 935	1 953	1 971	1 989	2 007	2 025	2 043	2 061	2 079	2 097	2 115	2 133	2 151	2 169	2 187	2 205	2 223	2 241	2 259	2 277	2 295	2 313	2 331	2 349	2 367	2 385	2 403	2 421	2 439	2 457	2 475	2 493	2 511	2 529	2 547	2 565	2 583	2 601	2 619	2 637	2 655	2 673	2 691	2 709	2 727	2 745	2 763	2 781	2 799	2 817	2 835	2 853	2 871	2 889	2 907	2 925	2 943	2 961	2 979	2 997	3 015	3 033	3 051	3 069	3 087	3 105	3 123	3 141	3 159	3 177	3 195	3 213	3 231	3 249	3 267	3 285	3 303	3 321	3 339	3 357	3 375	3 393	3 411	3 429	3 447	3 465	3 483	3 501	3 519	3 537	3 555	3 573	3 591	3 609	3 627	3 645	3 663	3 681	3 699	3 717	3 735	3 753	3 771	3 789	3 807	3 825	3 843	3 861	3 879	3 897	3 915	3 933	3 951	3 969	3 987	4 005	4 023	4 041	4 059	4 077	4 095	4 113	4 131	4 149	4 167	4 185	4 203	4 221	4 239	4 257	4 275	4 293	4 311	4 329	4 347	4 365	4 383	4 401	4 419	4 437	4 455	4 473	4 491	4 509	4 527	4 545	4 563	4 581	4 599	4 617	4 635	4 653	4 671	4 689	4 707																																																																																			
Secretaries, stenographers, and typists	38 275	46 644	58 275	70 506	84 499	100 64	117 70	135 43	153 167	171 178	189 194	207 207	225 225	243 243	261 261	279 279	297 297	315 315	333 333	351 351	369 369	387 387	405 405	423 423	441 441	459 459	477 477	495 495	513 513	531 531	549 549	567 567	585 585	603 603	621 621	639 639	657 657	675 675	693 693	711 711	729 729	747 747	765 765	783 783	801 801	819 819	837 837	855 855	873 873	891 891	909 909	927 927	945 945	963 963	981 981	999 999	1 017	1 035	1 053	1 071	1 089	1 107	1 125	1 143	1 161	1 179	1 197	1 215	1 233	1 251	1 269	1 287	1 305	1 323	1 341	1 359	1 377	1 395	1 413	1 431	1 449	1 467	1 485	1 503	1 521	1 539	1 557	1 575	1 593	1 611	1 629	1 647	1 665	1 683	1 701	1 719	1 737	1 755	1 773	1 791	1 809	1 827	1 845	1 863	1 881	1 899	1 917	1 935	1 953	1 971	1 989	2 007	2 025	2 043	2 061	2 079	2 097	2 115	2 133	2 151	2 169	2 187	2 205	2 223	2 241	2 259	2 277	2 295	2 313	2 331	2 349	2 367	2 385	2 403	2 421	2 439	2 457	2 475	2 493	2 511	2 529	2 547	2 565	2 583	2 601	2 619	2 637	2 655	2 673	2 691	2 709	2 727	2 745	2 763	2 781	2 799	2 817	2 835	2 853	2 871	2 889	2 907	2 925	2 943	2 961	2 979	2 997	3 015	3 033	3 051	3 069	3 087	3 105	3 123	3 141	3 159	3 177	3 195	3 213	3 231	3 249	3 267	3 285	3 303	3 321	3 339	3 357	3 375	3 393	3 411	3 429	3 447	3 465	3 483	3 501	3 519	3 537	3 555	3 573	3 591	3 609	3 627	3 645	3 663	3 681	3 699	3 717	3 735	3 753	3 771	3 789	3 807	3 825	3 843	3 861	3 879	3 897	3 915	3 933	3 951	3 969	3 987	4 005	4 023	4 041	4 059	4 077	4 095	4 113	4 131	4 149	4 167	4 185	4 203	4 221	4 239	4 257	4 275	4 293	4 311	4 329	4 347	4 365	4 383	4 401	4 419	4 437	4 455	4 473	4 491	4 509	4 527	4 545	4 563	4 581	4 599	4 617	4 635	4 653	4 671	4 689	4 707																																																																																			
Information clerks	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 499	4 49

United States

Employed persons 16 years and over—Con.

Detailed occupation	Professional and related services—Con.				Public administration				General government, n.e.c.			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total		Executive and legislative offices		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	1 185	668	4 495	2 005	1 363	724	1 141 732	184 410	4 427	1 312	135 654	46 276
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	47	2	1 104	183	152	17	915 363	85 877	1 699	131	29 128	3 496
Supervisors, protective service occupations	5	—	99	11	—	—	19 125	2 003	57	—	1 180	126
Supervisors, firefighting and fire prevention occupations	—	—	28	—	—	—	50 785	1 697	33	—	223	—
Supervisors, police and detectives	—	—	—	—	—	—	2 380	235	24	—	687	79
Supervisors, guards	—	—	71	11	—	—	188 863	1 799	60	—	3 629	47
Firefighting and fire prevention occupations	—	—	112	—	14	—	9 071	452	12	—	435	54
Freight inspection and fire prevention occupations	—	—	96	—	8	—	179 792	1 347	48	—	3 194	14
Freight inspection occupations	—	—	—	—	6	—	557 887	43 542	896	—	12 837	1 460
Police and detectives	—	—	—	—	—	—	409 792	23 859	718	—	9 809	792
Police and detectives, public service	—	—	—	—	—	—	61 482	7 415	178	—	1 635	271
Sheriffs, deputies, and other law enforcement officers	—	—	—	—	—	—	86 413	12 048	41	—	1 393	387
Correctional institution officers	—	—	—	—	—	—	96 323	38 533	21	—	11 482	842
Guards	42	2	893	172	138	17	41 449	31 434	21	—	8 629	561
Crossing guards	—	—	—	—	—	—	45 145	4 816	615	—	8 629	889
Guards and police, except public service	42	2	884	172	132	17	9 529	2 283	50	—	1 983	392
Protective service occupations, n.e.c.	—	—	9	—	6	—	—	—	—	—	—	—
Service occupations, except protective and household food preparation and service occupations	1 138	666	3 391	1 822	1 211	707	226 349	98 533	2 728	1 181	104 526	42 780
Food preparation and service occupations	77	70	370	227	144	127	32 599	21 824	289	233	11 645	9 096
Supervisors, food preparation and service occupations	11	11	23	15	—	—	2 369	1 038	14	—	505	272
Bartenders	—	—	15	—	—	—	753	410	—	—	131	72
Cooks, except short order	32	25	21	21	14	12	2 356	1 840	136	6	696	510
Waiters and waitresses	27	27	88	35	73	73	15 793	10 640	—	—	5 455	4 376
Short-order cooks	—	—	6	6	—	—	173	128	7	—	65	43
Food counter, fountain and related occupations	—	—	3	—	9	—	455	398	—	—	164	153
Kitchen workers, food preparation	7	7	63	57	5	5	1 092	1 777	21	21	435	331
Waiters and waitresses, assistants	—	—	17	14	6	—	2 190	1 521	21	11	897	700
Miscellaneous food preparation occupations	—	—	134	79	37	31	7 218	5 114	84	47	3 277	2 619
Health service occupations	25	20	820	661	155	128	23 521	18 241	140	102	8 132	6 668
Dental assistants	—	—	7	7	—	—	112	1 049	—	—	226	207
Health aides, except nursing	—	—	131	—	56	37	4 102	2 359	73	43	1 146	775
Nursing aides, orderlies, and attendants	5	20	650	523	99	91	18 307	14 833	67	59	6 760	5 686
Cleaning and building service occupations, except household	931	482	1 533	418	554	197	134 712	33 547	1 821	617	74 269	17 987
Supervisors, cleaning and building service occupations	—	—	211	44	15	9	5 329	638	79	—	2 984	994
Maid and houseman	153	124	163	107	130	87	12 055	8 419	200	186	5 392	3 369
Janitors and cleaners	778	358	1 134	267	409	101	115 154	23 960	1 503	431	64 762	13 805
Elevator operators	—	—	25	—	—	—	1 141	456	39	—	64 762	364
Pest control occupations	—	—	—	—	—	—	1 033	74	—	—	334	55
Personal service occupations	105	94	668	516	358	255	35 537	24 871	478	229	12 480	9 029
Supervisors, personal service occupations	—	—	—	—	—	—	428	74	6	—	88	28
Barbers	11	5	2	—	14	14	357	266	22	—	117	11
Hairstylists and cosmetologists	—	—	43	23	29	23	5 271	1 765	34	3	1 100	476
Attendants, amusement and recreation facilities	—	—	21	12	31	8	1 747	1 097	49	52	739	515
Globes	—	—	18	15	10	10	759	477	11	—	267	150
Ushers	7	7	18	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	5	—	—	—	83	29	—	—	29	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—
Waiters, service, except private household	5	5	94	77	32	12	10 623	8 656	139	68	3 867	2 873
Child care workers, except private household	27	27	393	312	41	29	11 112	3 782	38	38	4 327	3 371
Personal service occupations, n.e.c.	55	55	92	77	189	159	4 936	3 643	159	68	1 914	1 499
Farming, forestry, and fishing occupations	24	6	827	268	181	43	55 512	4 808	207	13	15 460	1 150
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	13	6	—	—	214	31	—	—	44	9
Related agricultural occupations	24	6	779	254	165	36	52 961	4 447	180	13	14 604	1 065
Supervisors, related agricultural occupations	—	—	3	3	—	—	6 024	488	10	8	473	80
Groundskeepers and gardeners, except farm	18	6	230	35	125	16	45 203	3 546	170	5	13 650	880
Animal caretakers, except farm	—	—	546	216	40	20	1 576	405	—	—	421	105
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	158	8	—	—	60	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.				Public administration			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total	
	Total	Female	Total	Female	Total	Female	Executive and legislative offices	Local government
	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.								
Forestry and logging occupations	—	—	—	—	—	—	—	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—
Forestry workers, except logging	—	—	—	—	—	—	—	—
Timber cutting and logging occupations	—	—	—	—	—	—	—	—
Fishers, hunters, and trappers	—	—	—	—	—	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—
Fishers	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	582	182	5 468	299	1 483	251	242	372
Mechanics and repairers	187	56	1 848	67	672	36	18	5
Supervisors, mechanics and repairers	6	—	204	7	33	—	242	164
Mechanics and repairers, except service	181	56	1 644	60	639	36	407	203
Vehicle and mobile equipment mechanics and repairers	58	10	207	3	101	—	145	76
Automobile mechanics	48	—	90	—	43	—	21	7
Bus, truck, and stationary engine mechanics	—	—	—	—	18	—	75	22
Aircraft engine mechanics	—	—	88	3	—	—	49	16
Small engine repairers	—	—	—	—	19	—	—	—
Automobile body and related repairers	—	—	5	—	8	—	—	—
Aircraft mechanics, except engine	10	10	17	—	—	—	—	—
Heavy equipment mechanics	—	—	—	—	32	—	—	—
Farm equipment mechanics	—	—	—	—	—	—	—	—
Industrial machinery repairers	15	5	126	6	67	—	—	—
Machinery mechanics	—	—	—	—	9	—	—	—
Electric and electronic equipment repairers	63	20	342	25	104	17	—	—
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—
Data processing equipment repairers	5	5	267	25	48	—	—	—
Household appliance and power tool repairers	58	15	49	—	22	—	—	—
Telephone line installers and repairers	—	—	—	—	—	—	—	—
Telephone installers and repairers	—	—	—	—	27	—	—	—
Miscellaneous electrical and electronic equipment repairers	—	—	8	—	7	—	—	—
Heating, air conditioning, and refrigeration mechanics	12	—	214	—	72	—	—	—
Mechanical mechanics and repairers	33	21	765	26	286	19	—	—
Camera, watch, and musical instrument repairers	—	—	52	19	6	—	—	—
Locksmiths and safe repairers	—	—	—	—	—	—	—	—
Other machine repairers	8	—	7	—	—	—	—	—
Mechanical controls and valve repairers	—	—	9	—	6	—	—	—
Elevator installers and repairers	—	—	27	—	—	—	—	—
Refrigerators and repairers	14	14	391	7	110	19	—	—
Specialized mechanics and repairers, n.e.c.	11	7	231	—	145	—	—	—
Not specified mechanics and repairers	—	—	—	—	—	—	—	—
Construction trades	90	9	1 333	30	370	70	635	375
Superintendents, construction occupations	29	3	235	—	27	—	90	41
Superintendents brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—
Superintendents carpenters and related workers	—	—	34	—	—	—	—	—
Superintendents electricians and power transmission installers	—	—	90	—	5	—	—	—
Superintendents painters, paperhangers, and plasterers	—	—	—	—	—	—	—	—
Superintendents plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—
Superintendents, n.e.c.	29	3	111	1	22	—	77	41
Construction trades, except supervisors	61	6	1 098	29	343	70	545	334
Brickmasons and stonemasons	9	—	23	—	—	—	11	2
Tile setters, hard and soft	—	—	—	—	—	—	—	—
Carpenters	40	5	216	17	80	—	202	83
Drywall installers	—	—	—	—	—	—	—	—
Electricians	—	—	504	7	54	—	104	64
Electrical power installers and repairers	—	—	—	—	—	—	—	—
Painters, construction and maintenance	—	—	112	5	119	—	87	25
Paperhangers	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.				Public administration			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Executive and legislative offices	
	Total	Female	Total	Female	Total	Female	Total	Female
United States								
Employed persons 16 years and over—Con.								
Precision production, craft, and repair occupations—Con.								
Construction trades—Con.								
Plasterers	1	1	174	—	20	—	224	29
Plumbers, pipefitters, and steamfitters	—	—	7	—	46	32	9 685	128
Concrete and masonry finishers	—	—	—	—	—	—	248	19
Glaziers	—	—	—	—	—	—	159	19
Insulation workers	—	—	—	—	—	—	872	94
Roofers	—	—	—	—	—	—	61	—
Sheetmetal duct installers	—	—	11	—	—	—	304	10
Structural metal workers	—	—	15	—	—	—	293	13
Drillers, earth	—	—	—	—	3	—	396	18
Construction trades, n.e.c.	—	—	18	—	9	—	131	47
Extractive occupations	—	—	40	—	—	—	3 068	110
Supervisors, extractive occupations	—	—	—	—	—	—	382	60
Drillers, oil well	—	—	—	—	—	—	110	12
Explosives workers	—	—	—	—	—	—	3	—
Mining machine operators	—	—	28	—	—	—	260	19
Mining occupations, n.e.c.	—	—	12	—	—	—	171	29
Precision production occupations	305	117	2 247	202	641	145	52 889	5 880
Supervisors, production occupations	188	81	651	127	223	52	19 481	2 883
Precision manufacturing occupations	25	8	779	20	117	15	16 408	771
Tool and die makers	—	—	60	—	—	—	592	16
Machinists	8	8	—	—	85	10	85	10
Boilermakers	10	—	500	14	84	10	7 829	283
Precision grinders, filers, and tool sharpeners	—	—	23	—	—	—	1 248	7
Pottermakers and model makers, metal	—	—	—	—	—	—	126	9
Lay-out workers	7	—	36	—	—	—	257	20
Precious stones and metals workers (jewelers)	—	—	13	6	5	5	78	12
Engravers, metal	—	—	—	—	16	—	195	51
Sheet metal workers	—	—	119	—	12	—	5 724	376
Miscellaneous precision metal workers	—	—	—	—	—	—	23	7
Precision woodworking occupations	—	—	26	9	2	—	324	63
Cabinet makers and model makers, wood	—	—	17	—	—	—	60	18
Furniture and wood workers	—	—	—	—	—	—	153	—
Miscellaneous precision wood workers	—	—	9	—	—	—	94	45
Precision textile, apparel, and furnishings machine workers	22	22	15	15	24	24	1 143	205
Dressmakers	22	22	15	15	24	24	1 143	205
Tailors	—	—	—	—	—	—	273	45
Upholsterers	—	—	—	—	—	—	50	7
Shoe repairers	—	—	—	—	—	—	22	—
Apparel and fabric patternmakers	—	—	—	—	—	—	25	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	54	—
Precision workers, assorted materials	16	6	146	16	120	39	1 621	302
Model makers and shapers, except jewelers	—	—	20	—	17	8	41	—
Perfume, lay-out workers, and cutters	—	—	—	—	89	31	51	—
Optical goods workers	—	—	54	—	7	—	281	25
Dental laboratory and medical appliance technicians	—	—	5	5	7	—	476	67
Bookbinders	16	6	35	11	—	—	190	44
Electrical and electronic equipment assemblers	—	—	32	—	—	—	295	95
Miscellaneous precision workers, n.e.c.	—	—	13	—	—	—	287	20
Precision food production occupations	8	—	—	—	13	—	1 624	277
Butchers and meat cutters	8	—	7	—	—	—	44	44
Bakers	—	—	6	—	13	—	399	226
Food batchmakers	—	—	—	—	—	—	26	7
Precision inspectors, testers, and related workers	—	—	59	9	6	—	3 370	187
Inspectors, testers, and graders	—	—	59	9	6	—	3 215	181
Adjusters and calibrators	—	—	—	—	—	—	155	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.				Public administration			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Executive and legislative offices	
	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.								
Precision production, craft, and repair occupations—Con.								
Precision production occupations—Con.								
Plant and system operators	46	—	558	6	136	15	8 318	192
Water and sewage treatment plant operators	—	—	21	—	6	—	1 338	22
Power plant operators	—	—	11	—	6	—	1 338	22
Stationary engineers	46	—	504	6	105	15	5 478	120
Miscellaneous plant and system operators	—	—	22	—	25	—	862	43
Operators, fabricators, and laborers	1 359	537	4 130	1 001	3 225	863	224 472	30 186
Machine operators, assemblers, and inspectors	920	377	2 013	572	1 301	331	68 090	13 040
Machine operators and tenders, except precision	864	397	1 215	350	837	533	43 664	9 084
Metalworking and plastic working machine operators	27	14	52	—	9	—	1 610	325
Lathe and turning machine set-up operators	—	—	—	—	—	—	—	—
Lathe and turning machine operators	14	14	17	—	3	3	470	115
Milling and planing machine operators	—	—	17	—	6	6	146	16
Punching and stamping press machine operators	6	—	17	—	6	—	320	82
Rolling machine operators	—	—	—	—	—	—	15	—
Drilling and boring machine operators	—	—	—	—	—	—	73	—
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	414	93
Forging machine operators	7	—	—	—	—	—	106	7
Numerical control machine operators	—	—	—	—	—	—	40	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	7	—	—	—	26	12
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	251	29
Metal and plastic processing machine operators	27	10	23	—	6	6	1 511	211
Molding and casting machine operators	16	10	6	—	12	—	717	153
Metal plating machine operators	11	—	17	—	6	—	171	41
Heat treating equipment operators	—	—	—	—	—	—	171	17
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	124	—
Woodworking machine operators	—	—	12	—	6	—	1 207	91
Wood knife, routing, and planing machine operators	—	—	—	—	—	—	14	—
Sawing machine operators	—	—	—	—	—	—	196	8
Shaping and joining machine operators	—	—	—	—	—	—	21	3
Nailing and tacking machine operators	—	—	12	—	—	—	976	80
Miscellaneous woodworking machine operators	—	—	—	—	—	—	—	—
Printing machine operators	471	137	267	84	163	57	7 413	1 838
Photoengravers and lithographers	391	85	207	59	111	29	6 122	1 314
Typesetters and compositors	8	—	17	—	41	—	313	65
Miscellaneous printing machine operators	45	22	43	36	41	28	538	261
Textile, apparel, and furnishings machine operators	27	—	—	—	—	—	2 080	198
Winding and twisting machine operators	13	13	63	47	19	13	1 424	424
Knitting, looping, taping, and weaving machine operators	—	—	—	—	—	—	19	11
Textile cutting machine operators	—	—	—	—	—	—	396	378
Textile sewing machine operators	—	—	—	—	—	—	22	13
Shoe machine operators	13	13	17	17	6	6	371	280
Pressing machine operators	—	—	10	10	139	84	11	6
Laundry and dry cleaning machine operators	—	—	22	20	7	7	1 041	425
Miscellaneous textile machine operators	—	—	14	—	6	—	85	27
Machine operators, assorted materials	326	223	796	219	622	248	29 588	5 166
Cementing and gluing machine operators	—	—	—	—	—	—	206	34
Extruding and forming machine operators	16	16	23	5	8	8	290	139
Mixing and blending machine operators	—	—	—	—	—	—	2	—
Compressing and compacting machine operators	7	7	17	—	15	9	566	306
Painting and painting machine operators	—	—	—	—	—	—	194	26
Roasting and baking machine operators, food	—	—	29	9	59	13	1 233	37
Washing, cleaning, and picking machine operators	—	—	—	—	—	—	1 468	84
Washing, cleaning, and picking machine operators	—	—	—	—	—	—	26	12
General government, n.e.c.								
Local government								
Total	3 538	59	104	—	8 318	192	251	29
Total	488	—	—	—	1 338	22	717	153
Total	141	—	—	—	5 478	120	1 424	424
Total	2 996	38	93	—	105	15	862	43
Total	313	21	11	—	25	—	1 610	325
Total	102 479	13 005	1 874	358	3 225	863	224 472	30 186
Total	25 291	5 072	713	250	1 301	331	68 090	13 040
Total	16 424	3 427	608	228	837	533	43 664	9 084
Total	593	109	—	—	9	—	1 610	325
Total	127	50	—	—	3	3	470	115
Total	45	10	—	—	6	6	146	16
Total	210	15	—	—	6	—	320	82
Total	15	—	—	—	—	—	15	—
Total	19	—	—	—	—	—	73	—
Total	180	27	—	—	—	—	414	93
Total	26	—	—	—	—	—	106	7
Total	—	—	—	—	—	—	40	—
Total	21	7	—	—	—	—	26	12
Total	82	4	—	—	6	6	251	29
Total	374	108	20	7	12	—	717	153
Total	224	93	20	—	6	—	171	41
Total	84	15	—	—	—	—	171	17
Total	34	—	—	—	—	—	124	—
Total	32	—	—	—	6	—	1 207	91
Total	368	26	—	—	—	—	14	—
Total	107	2	—	—	—	—	196	8
Total	8	—	—	—	—	—	21	3
Total	246	24	—	—	—	—	976	80
Total	3 133	789	204	74	163	57	7 413	1 838
Total	2 686	604	178	59	111	29	6 122	1 314
Total	83	12	—	—	41	—	313	65
Total	234	122	15	13	28	28	538	261
Total	130	51	8	2	19	13	2 080	198
Total	914	709	—	—	—	—	1 424	424
Total	5	5	—	—	—	—	19	11
Total	349	331	—	—	—	—	396	378
Total	137	104	—	—	6	6	371	280
Total	6	6	—	—	—	—	11	6
Total	57	41	—	—	139	84	11	6
Total	341	216	—	—	7	7	1 041	425
Total	19	6	8	—	6	—	85	27
Total	10 960	1 882	376	147	622	248	29 588	5 166
Total	102	22	12	5	8	8	206	34
Total	91	53	—	—	—	—	290	139
Total	—	—	—	—	—	—	2	—
Total	180	105	—	—	15	9	566	306
Total	102	7	6	—	—	—	194	26
Total	60	31	—	—	59	13	1 233	37
Total	561	—	—	—	—	—	1 468	84
Total	10	—	—	—	—	—	26	12

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Professional and related services—Con.		Public administration		General government, n.e.c.							
Accounting, auditing, and bookkeeping services	Total	Noncommercial educational and scientific research	Total	Miscellaneous professional and related services	Total	Executive and legislative offices	Total	Total		Local government	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators and tenders, except precision—Con.											
Machine operators, assemblers, and inspectors—Con.											
Folding machine operators											
Forming, plan, and oven operators, except food											
Cutting and grinding machine operators											
Slicing and curving machine operators											
Motion picture projectionists											
Photographic process machine operators											
Miscellaneous machine operators, n.e.c.											
Machine operators, not specified											
Fabricators, assemblers, and hand working occupations											
Fitters and fitters											
Solderers and brazers											
Assemblers											
Hand cutting and turning occupations											
Hand mending, coating, and forming occupations											
Hand painting, coating, and decorating occupations											
Hand engraving and tooling occupations											
Hand grinding and polishing occupations											
Miscellaneous hand working occupations											
Production inspectors, testers, samplers, and weighers											
Production inspectors, checkers, and examiners											
Production testers											
Production samplers and weighers											
Graders and sorters, except agricultural											
Transportation and material moving occupations											
Motor vehicle operators											
Supervisors, motor vehicle operators											
Truck drivers, heavy											
Truck drivers, light											
Driver-sales workers											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.				Public administration							
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total		Executive and legislative offices		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Operators, fabricators, and laborers—Con.												
Handlers, equipment cleaners, helpers, and laborers	189	41	1 161	260	1 459	292	79 863	10 419	536	48	39 488	4 497
Supervisors; handlers, equipment cleaners, and laborers, n.e.c.	7	—	26	14	170	18	893	195	6	—	309	59
Helpers, mechanics and repairers	—	—	7	—	7	—	953	84	—	—	479	23
Helpers, construction and extractive occupations	28	—	28	6	19	3	2 056	177	7	—	1 014	73
Helpers, construction trades	—	—	15	6	3	3	1 463	136	7	—	826	65
Helpers, surveyor	28	—	13	—	16	—	593	41	—	—	188	8
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	5	—	43	—	22	—	5 827	300	65	8	2 806	163
Production helpers	5	—	73	19	7	—	1 893	440	6	—	764	171
Freight, stock, and material handlers	26	8	87	4	55	2	7 366	774	102	15	3 574	296
Storage collectors	—	—	5	—	2	—	2 320	104	18	—	1 826	71
Stock buyers and brokers	—	—	21	—	—	—	1 486	—	—	—	48	—
Stock buyers and brokers, n.e.c.	19	8	22	—	3	—	1 886	382	35	12	535	138
Machine feeders and operators	—	—	—	—	11	2	155	58	3	—	12	—
Freight, stock, and material handlers, n.e.c.	7	—	39	4	39	—	3 256	230	44	—	1 120	75
Garage and service station related occupations	6	6	5	7	9	—	1 671	113	4	—	996	72
Vehicle washers and equipment cleaners	—	—	21	—	—	—	1 579	130	2	—	538	48
Hand packers and packagers	7	—	169	66	62	32	5 100	1 457	2	2	1 251	410
Laborers, except construction	105	27	702	144	1 108	237	52 325	6 749	342	23	27 757	3 182
											16 123	1 257

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Public administration—Con.													
Justice, public order, and safety				Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs	
Total		Local government											
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
1 410 845	360 223	1 020 924	241 091	285 555	164 724	621 786	410 999	255 473	74 729	532 448	217 238	662 797	218 896
205 616	52 416	105 720	26 886	149 343	61 447	275 564	153 626	98 909	22 759	198 722	42 659	204 329	49 025
82 494	21 344	48 804	11 382	139 889	58 345	123 535	57 573	46 166	11 796	126 620	29 598	123 157	35 637
1 120	226	747	153	197	103	493	241	248	32	404	70	384	94
27 279	10 016	14 886	6 159	40 216	19 059	36 780	14 860	20 625	3 624	25 076	5 858	37 666	9 202
3 110	1 048	—	—	8 340	2 667	13 663	5 541	6 965	1 931	15 482	3 836	35 703	8 830
9 303	2 809	—	—	7 009	2 393	17 729	6 870	8 206	1 691	8 175	1 691	1 058	174
14 886	6 159	14 886	6 159	24 867	13 999	5 388	2 449	5 454	1 003	1 419	331	1 905	198
20 385	597	17 895	79	70	25	70	24	88	16	2 983	1 267	291	5
385	142	177	79	931	307	848	328	312	69	717	103	1 230	361
1 696	497	824	118	509	197	2 744	1 205	800	295	1 973	722	4 630	1 524
229	86	52	17	121	50	286	108	256	110	357	100	1 910	830
120	45	81	33	83	34	201	94	83	18	212	25	216	30
416	99	69	33	118	37	1 898	843	70	50	358	203	446	124
122	23	52	15	77	44	2 221	938	1 003	307	851	124	678	221
17	3	17	3	8	—	—	—	5	—	9	—	31	—
11 594	3 173	5 455	1 761	4 658	1 726	18 810	8 830	11 444	3 282	14 585	3 882	18 085	4 172
11 594	3 173	5 455	1 761	4 658	1 726	18 810	8 830	11 444	3 282	14 585	3 882	18 085	4 172
19 111	6 437	8 549	2 861	92 901	36 763	58 927	30 027	11 232	3 993	79 095	17 244	57 590	19 074
4 482	2 108	1 738	896	53 220	24 340	11 025	4 672	2 928	1 229	10 049	3 562	13 894	6 278
—	—	—	—	35	18	35	15	29	19	15	9	10	5
647	251	352	164	9 560	4 549	1 909	788	879	314	2 233	603	2 073	645
596	228	246	73	957	386	2 768	1 190	499	262	2 016	737	5 099	1 759
5 750	1 910	2 529	741	2 327	1 313	33 373	19 046	2 215	997	11 658	5 942	13 418	4 888
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
708	238	256	105	238	97	588	275	562	249	1 181	509	6 541	2 639
6	—	—	—	21	11	33	28	18	76	121	38	81	12
581	8	422	8	83	11	217	22	1 021	306	14 488	613	807	34
4 696	701	2 087	315	26 036	5 807	6 335	2 205	2 093	306	35 935	4 266	13 781	1 763
1 645	993	919	559	430	235	2 644	1 785	878	531	1 399	965	1 844	1 039
123 122	31 072	56 916	15 504	9 454	3 102	152 029	96 053	52 743	10 963	72 102	13 061	81 172	13 388
2 849	176	2 106	112	666	36	3 562	400	10 005	552	26 378	825	34 589	825
108	8	44	—	63	12	351	36	1 291	220	274	44	615	76
2 698	168	2 024	112	599	24	3 132	359	7 539	289	25 244	740	33 868	749
—	—	—	—	6	—	18	2	29	—	1 576	43	2 568	30
12	6	6	—	—	—	33	9	38	—	222	10	314	4
7	—	7	—	14	—	7	—	135	—	285	7	—	—
—	—	—	—	26	—	46	7	204	5	33	—	42	—
26	—	19	—	—	—	36	—	202	29	270	8	490	28
887	35	713	27	129	—	962	23	3 002	83	10 798	299	5 014	87
—	—	—	—	—	—	—	—	—	—	—	—	—	—
229	17	99	6	84	13	262	14	337	14	216	6	25	—
269	48	167	34	46	5	381	13	3 381	77	3 381	77	9 025	99
155	25	85	25	68	—	179	283	1 221	813	1 221	88	3 363	210
137	12	913	20	—	—	15	13	26	6	813	27	3 223	55
1 063	25	913	20	226	6	992	46	2 835	134	6 116	166	9 058	12
43	—	38	—	4	—	79	5	1 175	43	661	41	106	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
2 095	739	882	376	2 519	785	6 752	2 461	1 637	446	8 277	2 534	15 912	3 530
973	261	345	12	1 540	449	2 775	900	664	152	3 176	749	7 332	1 500
548	193	237	102	649	228	2 131	926	567	189	1 976	634	6 041	1 401
—	—	—	—	12	7	20	6	—	—	82	—	13	—
548	278	272	182	312	101	1 780	911	301	84	2 728	1 010	1 195	380
26	7	6	—	6	—	46	18	85	21	367	115	1 331	249

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	United States				Public administration—Con.								National security and international affairs			
	Justice, public order, and safety				Public finance, taxation, and monetary policy				Administration of human resources programs				Administration of environmental quality and housing programs			
	Total		Local government		Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	1 473	264	489	89	290	66	5 607	1 748	27 138	3 154	12 642	2 063	5 059	581		
Managerial and professional specialty occupations—Con.	697	142	225	56	149	27	1 293	455	1 057	191	2 947	56	1 630	92		
Professional specialty occupations—Con.	21	—	8	—	13	—	111	44	2 165	98	640	58	1 250	172		
Natural scientists	31	—	2	—	7	—	161	5	4 622	542	781	78	155	23		
Physicists and astronomers	32	21	—	—	7	—	161	5	1 308	276	639	125	422	46		
Chemists, except biochemists	78	11	56	—	24	6	239	56	1 885	243	3 101	490	307	90		
Atmospheric and space scientists	119	30	54	5	6	—	1 611	546	5 074	1 042	1 459	375	409	89		
Geologists and geodesists	253	26	83	5	65	—	1 386	34	10 681	1 042	2 240	163	319	42		
Physical scientists, n.e.c.	223	34	104	23	13	13	1 403	540	82	214	339	99	85	9		
Agricultural and food scientists	913	102	364	48	25	2	3 867	821	28	82	1 331	155	1 191	104		
Biological and life scientists	589	87	307	44	7	—	2 985	742	39	20	269	44	882	76		
Forestry and conservation scientists	252	6	20	—	—	—	656	70	14	—	14	—	220	14		
Medical scientists	69	9	34	4	2	2	194	8	39	8	1 032	89	57	12		
Health diagnosing occupations	—	—	—	—	—	—	12	—	—	—	—	—	—	—		
Physicians	—	—	—	—	—	—	13	—	—	—	—	—	—	—		
Dentists	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Veterinarians	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Optometrists	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Health diagnosing practitioners, n.e.c.	3	—	3	—	16	—	7	—	7	—	16	—	13	—		
Health assessment and treating occupations	8 287	2 326	5 899	997	156	142	16 986	15 327	297	217	842	646	1 339	985		
Registered nurses	1 901	1 638	810	685	129	129	12 536	12 103	99	92	431	—	1 011	894		
Physicists	124	35	7	—	—	—	410	83	4	—	97	—	63	22		
Dietitians	274	193	41	31	12	6	1 364	1 291	100	62	207	161	131	35		
Therapists	678	248	238	85	15	—	2 497	1 768	75	58	60	17	175	75		
Physicians' assistants	5 110	212	4 803	196	—	—	179	82	19	5	47	19	69	—		
Teachers, postsecondary	627	172	93	25	34	—	457	246	45	23	119	37	490	94		
Teachers, except postsecondary	3 771	839	661	152	93	43	3 767	2 241	2 444	1 867	1 227	304	3 662	804		
Teachers, prekindergarten and kindergarten	37	2	23	2	—	—	218	213	201	201	6	6	63	43		
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Teachers, special education	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Teachers, n.e.c.	143	72	14	8	10	10	724	513	75	74	76	—	435	71		
Counselors, educational and vocational	3 591	765	624	142	83	33	2 825	1 615	2 167	1 572	1 145	298	3 164	690		
Librarians, archivists, and curators	2 440	830	520	240	124	41	8 802	3 889	202	107	525	229	1 097	384		
Librarians	756	458	240	145	63	106	793	645	580	322	436	300	1 410	478		
Archivists and curators	729	445	213	132	107	89	754	640	385	295	389	294	1 227	915		
Artists and entertainers	27	13	27	13	17	17	39	25	195	32	47	6	183	63		
Social scientists and urban planners	3 468	930	1 483	460	442	190	4 874	2 114	2 444	591	4 937	1 074	3 587	756		
Economists	152	16	17	2	487	117	859	392	611	91	4 155	877	1 550	207		
Psychologists	1 884	514	588	294	53	28	3 126	1 339	72	14	1 755	59	1 570	128		
Sociologists	440	147	258	73	13	10	157	105	19	—	35	22	23	7		
Social scientists, n.e.c.	681	199	373	113	32	11	226	100	613	252	332	81	1 740	407		
Urban planners	311	54	247	38	54	24	306	178	129	234	240	35	1 304	7		
Social, recreation, and religious workers	35 635	11 595	17 175	6 698	939	686	85 783	61 180	2 676	1 456	1 972	792	1 304	559		
Social workers	34 414	11 461	16 861	6 640	913	686	85 464	60 766	1 052	675	1 789	751	898	410		
Recreation workers	337	55	33	8	—	—	198	315	195	763	121	35	187	103		
Clergy	835	56	252	33	20	—	198	26	12	7	36	6	129	37		
Religious workers, n.e.c.	49	23	29	16	6	—	52	—	17	11	26	—	90	37		
Lawyers and judges	57 431	11 273	25 211	5 430	2 934	514	5 830	2 042	1 614	506	8 008	1 912	2 010	423		
Lawyers	35 292	8 079	16 617	3 563	2 790	487	4 077	1 395	1 478	467	7 133	1 634	1 671	299		
Judges	22 137	3 194	8 594	1 867	144	27	1 753	647	136	39	735	1 278	939	124		
Writers, artists, entertainers, and athletes	3 377	1 368	793	732	969	491	4 949	2 619	3 579	1 682	5 408	2 190	9 322	3 365		
Authors	32	19	6	—	36	6	184	42	257	147	133	54	322	131		
Technical writers	191	94	47	29	109	56	644	426	33	7	715	303	1 177	345		
Designers	155	51	85	35	134	51	249	100	248	58	871	147	1 477	345		
Musicians and composers	43	5	—	—	—	—	67	30	102	50	19	147	264	89		
Actors and directors	176	12	22	5	20	—	118	63	185	52	73	18	145	145		
Painters, sculptors, craft-artists, and artist printmakers	—	73	62	14	24	9	425	163	286	119	354	137	955	265		
Photographers	464	60	293	23	55	28	156	38	167	40	377	91	1 120	91		
Dancers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Artists, performers, and related workers, n.e.c.	176	43	99	24	26	125	80	44	14	14	11	11	7	7		
Editors and reporters	988	651	507	369	179	—	1 037	720	595	386	1 118	61	1 119	32		
Public relations specialists	954	339	600	219	386	216	1 876	966	1 019	508	1 068	637	3 138	1 681		
Announcers	22	7	22	7	—	—	32	14	29	—	12	—	106	13		
Athletes	162	14	50	7	—	—	81	13	622	269	23	—	204	45		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Cont.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Public administration—Cont.

United States

	Justice, public order, and safety				Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs	
	Total		Local government		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Cont.														
Technical, sales, and administrative support occupations	296 939	217 825	189 350	141 076	125 829	100 710	281 583	222 501	69 874	41 542	278 692	168 284	259 370	148 121
Technicians and related support occupations	53 469	28 922	42 287	23 583	5 380	2 658	18 238	9 865	14 604	3 394	59 443	10 743	52 397	9 933
Health technicians and technicians	3 157	1 104	2 251	73	103	72	4 222	2 887	332	74	1 149	380	1 324	678
Clinical laboratory technicians and technicians	659	41	17	18	28	6	161	159	65	11	6	82	104	79
Dental hygienists	41	44	17	18	6	10	161	128	9	9	18	6	108	77
Dental record technicians and technicians	104	44	17	18	16	10	161	128	9	9	18	6	108	77
Health record technicians and technicians	24	11	338	285	32	32	1 259	1 206	3	3	23	17	190	18
Radiologic technicians	649	545	1 560	202	21	10	1 738	1 409	252	48	954	253	265	105
Licensed practical nurses	1 680	520	1 324	274	1 242	479	3 065	1 409	7 010	1 243	17 825	2 735	20 691	2 308
Health technicians and technicians, n.e.c.	2 410	269	1 477	150	300	189	681	319	16	7	7 207	586	12 383	1 142
Engineering and related technicians and technicians	2 047	13	15	11	—	—	—	—	15	—	66	10	366	37
Electrical and electronic technicians	21	11	13	11	63	19	1 586	800	2 089	474	4 787	983	3 860	397
Industrial engineering technicians	34	11	392	21	839	256	418	135	2 383	537	3 725	971	3 232	603
Mechanical engineering technicians	708	103	310	78	839	256	342	142	1 593	93	1 986	177	574	89
Engineering technicians, n.e.c.	426	15	117	7	40	15	1 530	774	2 380	418	2 750	825	1 293	218
Drafting occupations	174	70	123	33	150	77	1 530	774	2 380	418	2 750	825	1 293	218
Surveying and mapping technicians	208	16	11	10	6	6	150	77	1 530	774	2 750	571	110	15
Science technicians	16	22	32	10	63	22	251	53	270	181	380	185	103	166
Biological technicians	63	48	80	23	81	55	1 117	622	894	152	591	68	2 089	103
Chemical technicians	129	27 278	38 456	22 970	3 885	2 030	9 350	4 796	4 882	1 639	37 719	6 803	29 089	6 729
Science technicians, n.e.c.	47 694	7	87	482	147	10	234	134	253	43	24 245	1 832	11 173	2 228
Technicians, except health, engineering, and science	446	572	973	482	147	10	234	134	253	43	24 245	1 832	11 173	2 228
Airframe jacks and inspectors	1 137	22 959	33 729	20 715	82	32	182	114	216	131	594	199	6 832	1 964
Air traffic controllers	37 925	612	68	245	1 946	803	3 209	1 225	1 062	405	4 135	1 079	6 832	1 964
Broadcast equipment operators	1 540	32	15	8	55	31	98	64	27	183	1 08	40	134	40
Computer programmers	32	15	17	630	830	690	4 871	2 825	331	183	1 643	1 296	374	240
Tool programmers, numerical control	2 258	1 282	1 171	883	759	464	4 871	2 825	2 874	862	6 403	1 719	9 276	2 137
Legal assistants	4 356	1 781	1 969	883	4 082	2 271	2 588	1 603	3 029	1 209	5 005	2 554	5 833	4 152
Technicians, n.e.c.	2 203	1 912	1 507	912	4 082	2 271	2 588	1 603	3 029	1 209	5 005	2 554	5 833	4 152
Sales occupations	2 203	1 912	1 507	912	4 082	2 271	2 588	1 603	3 029	1 209	5 005	2 554	5 833	4 152
Supervisors and proprietors, sales occupations	292	153	153	27	218	81	424	163	144	29	460	127	722	277
Salaried	292	153	153	27	218	81	424	163	144	29	460	127	722	277
Self-employed	191	53	138	42	1 654	334	417	113	1 538	306	933	55	282	106
Supervisors, finance and business services	152	37	105	32	1 654	334	417	113	1 538	306	933	55	282	106
Insurance sales occupations	9	9	3	3	15	15	2	—	—	—	—	—	—	—
Real estate sales occupations	30	7	30	7	15	15	2	—	—	—	—	—	—	—
Securities and financial services sales occupations	9	9	3	3	15	15	2	—	—	—	—	—	—	—
Advertising and related sales occupations	30	7	30	7	15	15	2	—	—	—	—	—	—	—
Sales occupations, other business services	9	9	9	9	7	7	65	8	25	6	60	35	29	8
Sales representatives, commodities, except retail	9	9	9	9	7	7	65	8	25	6	60	35	29	8
Sales engineers	9	9	9	9	7	7	65	8	25	6	60	35	29	8
Sales representatives, mining, manufacturing, and wholesale	1 709	1 184	1 205	843	2 154	1 841	1 662	1 293	1 264	864	3 516	2 329	4 789	3 755
Sales workers, retail and personal services	430	182	258	118	313	255	527	313	499	258	1 285	537	2 049	1 348
Sales workers, commodities	1 044	844	734	594	1 785	1 548	997	872	711	569	2 102	1 725	2 636	2 350
Sales counter clerks	199	124	192	124	19	25	70	48	21	8	44	17	50	18
Cashiers	36	14	21	14	25	25	20	5	58	4	36	8	8	6
Shift and door-to-door sales workers	2	2	2	2	49	15	20	5	12	4	36	8	8	6
News vendors	2	2	2	2	49	15	20	5	12	4	36	8	8	6
Sales related occupations	2	2	2	2	49	15	20	5	12	4	36	8	8	6
Demonstrators, promoters and models, sales	2	2	2	2	49	15	20	5	12	4	36	8	8	6
Auctioneers	2	2	2	2	49	15	20	5	12	4	36	8	8	6
Sales support occupations, n.e.c.	241 267	187 611	145 556	116 304	116 367	95 781	260 757	211 032	52 241	36 939	214 244	154 987	201 140	134 036
Administrative support occupations, including clerical	27 937	9 148	15 039	5 304	12 695	6 017	26 729	15 121	10 139	1 934	30 645	11 554	30 149	7 236
Supervisors, administrative support occupations	27 768	8 540	14 476	4 974	9 732	5 101	24 302	13 915	9 612	1 753	28 337	10 642	25 173	5 605
Supervisors, general office	309	116	116	64	2 391	109	551	204	117	6	618	126	1 548	353
Supervisors, computer equipment operators	719	392	316	201	2 391	109	551	204	117	6	618	126	1 548	353
Supervisors, financial records processing	37	34	42	27	4	4	28	26	16	10	56	17	94	38
Supervisors, financial operations	37	34	42	27	4	4	28	26	16	10	56	17	94	38
Chief communications operators	314	214	34	76	170	76	257	107	74	12	338	125	1 349	276
Supervisors, distribution, scheduling, and adjusting clerks	214	214	214	214	4 437	3 226	4 328	3 065	972	498	3 915	2 264	7 778	3 843
Computer equipment operators	3 183	2 310	2 012	1 431	4 437	3 226	4 328	3 065	972	498	3 915	2 264	7 778	3 843
Computer operators	3 183	2 310	2 012	1 431	4 437	3 226	4 328	3 065	972	498	3 915	2 264	7 778	3 843
Peripheral equipment operators	134	110	81	69	1 64	128	283	163	24	—	231	148	316	152

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Public administration—Con.																	
Justice, public order, and safety			Public finance, taxation, and monetary policy			Administration of human resources programs			Administration of environmental quality and housing programs			Administration of economic programs			National security and international affairs		
Local government			Federal government			Total			Total			Total			Total		
Total	Female		Total	Female		Total	Female		Total	Female		Total	Female		Total	Female	
94 781	90 073	55 185	52 958	26 395	25 932	80 461	78 608	21 058	20 619	50 630	49 586	64 542	62 548	50 630	49 586	64 542	62 548
17 436	16 730	10 505	32 205	14 809	14 668	47 354	46 720	14 259	14 076	31 782	31 358	41 696	40 934	31 782	31 358	41 696	40 934
53 547	50 730	32 909	32 205	14 809	14 668	47 354	46 720	14 259	14 076	31 782	31 358	41 696	40 934	31 782	31 358	41 696	40 934
23 798	23 126	15 751	15 357	10 216	9 960	29 195	28 088	6 133	5 884	29 195	28 088	20 301	19 149	29 195	28 088	20 301	19 149
5 047	3 860	3 317	2 561	2 212	1 878	10 510	8 995	2 064	1 559	43 678	30 174	3 148	2 386	43 678	30 174	3 148	2 386
771	431	476	276	357	243	2 938	2 192	669	443	37 820	25 561	558	367	37 820	25 561	558	367
268	92	138	59	66	54	256	182	57	39	697	222	894	696	697	222	894	696
2 826	2 613	1 780	1 622	1 154	1 089	6 246	5 788	1 113	942	3 328	2 996	1 303	1 078	3 328	2 996	1 303	1 078
1 182	724	923	604	635	492	1 070	833	225	135	1 833	1 395	393	245	1 833	1 395	393	245
7 923	6 140	4 313	3 303	6 117	5 045	11 840	9 316	5 233	1 047	6 827	5 422	10 284	7 227	6 827	5 422	10 284	7 227
157	131	47	8	26	26	357	281	7	6	177	165	220	195	177	165	220	195
208	180	206	134	235	205	621	476	176	83	518	320	1 285	727	518	320	1 285	727
1 051	806	502	336	459	408	1 969	1 649	1 28	87	1 452	1 265	4 078	3 094	1 452	1 265	4 078	3 094
154	91	73	56	78	72	282	225	128	87	358	279	402	361	358	279	402	361
5 060	4 136	2 738	2 263	4 580	3 761	7 348	5 584	465	360	3 538	2 792	3 308	2 334	3 538	2 792	3 308	2 334
1 154	782	735	466	541	414	1 256	1 094	233	123	1 007	796	969	516	1 007	796	969	516
9 861	8 438	5 834	5 131	13 664	10 973	12 699	10 103	3 333	2 730	8 930	6 586	15 023	10 632	8 930	6 586	15 023	10 632
7 897	6 861	4 722	4 208	11 458	9 110	9 328	7 613	2 607	2 169	5 793	4 290	10 631	7 528	5 793	4 290	10 631	7 528
1 456	1 248	874	85	1 337	1 163	1 669	1 412	562	480	2 040	1 761	3 219	2 559	2 040	1 761	3 219	2 559
132	109	90	85	249	232	238	209	97	27	763	300	860	580	763	300	860	580
265	134	86	49	166	166	1 204	644	97	27	156	106	131	83	156	106	131	83
111	86	62	51	454	383	701	437	131	77	446	268	519	280	446	268	519	280
835	661	543	414	608	451	1 511	1 111	80	41	1 411	74	240	109	1 411	74	240	109
183	135	108	76	88	62	287	222	3	3	25	23	23	23	25	23	23	23
23	7	23	22	22	22	6	6	6	6	6	6	5	5	6	6	5	5
629	519	412	331	498	367	392	280	48	33	860	789	256	148	860	789	256	148
2 347	1 940	1 395	1 190	1 900	1 172	1 165	1 107	227	154	860	789	1 740	1 452	860	789	1 740	1 452
2 169	1 886	1 366	1 344	1 900	1 172	1 153	1 095	227	154	828	782	1 694	1 435	828	782	1 694	1 435
10	10	6	6	—	—	12	—	—	—	21	7	18	—	21	7	18	—
148	44	103	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 786	780	606	262	2 963	1 929	2 978	1 247	421	207	3 184	1 743	2 766	1 047	3 184	1 743	2 766	1 047
1 369	683	406	227	2 822	1 908	2 673	1 172	340	166	2 814	1 671	2 149	954	2 814	1 671	2 149	954
417	97	200	35	141	21	305	75	81	41	370	92	617	93	370	92	617	93
7 289	3 793	5 080	2 909	2 180	1 437	4 641	2 677	2 004	704	6 634	2 587	31 741	14 697	6 634	2 587	31 741	14 697
1 381	609	2 376	1 432	22	6	17	10	14	58	1 523	57	274	86	1 523	57	274	86
1 538	406	567	374	611	420	1 410	937	711	198	1 327	806	4 884	1 368	1 327	806	4 884	1 368
471	97	152	46	185	86	392	181	148	82	2 535	975	21 804	11 245	2 535	975	21 804	11 245
40	15	23	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
428	272	280	193	595	358	1 615	1 095	268	268	948	111	179	57	948	111	179	57
47	23	29	10	38	22	98	25	60	34	504	285	1 642	549	504	285	1 642	549
1 402	845	758	443	25	18	137	72	15	15	144	92	109	46	144	92	109	46
779	445	239	138	3 371	2 000	46 495	32 562	1 320	599	5 867	2 775	1 692	900	5 867	2 775	1 692	900
132	127	112	107	2 120	1 243	37 534	25 277	1 066	429	5 471	2 506	1 515	813	5 471	2 506	1 515	813
491	273	407	198	48	48	8 092	6 784	90	77	122	89	80	47	122	89	80	47
77 642	59 623	51 174	40 203	1 203	709	869	561	164	93	274	180	97	40	274	180	97	40
30 887	25 049	19 468	15 855	41 535	36 721	57 987	47 794	9 049	6 811	52 628	41 219	31 758	21 788	52 628	41 219	31 758	21 788
				23 005	20 280	38 591	32 094	5 627	4 599	36 533	29 065	20 021	13 964	36 533	29 065	20 021	13 964
																</	

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																							
Employed persons 16 years and over—Con.																							
Justice, public order, and safety				Public finance, taxation, and monetary policy				Administration of human resources programs				Administration of environmental quality and housing programs				Administration of economic programs				National security and international affairs			
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
873 109	87 538	702 087	71 523	5 802	1 112	42 625	29 229	27 186	5 693	12 809	2 539	40 120	10 711										
846 948	78 662	685 136	65 808	4 475	449	3 304	517	8 035	967	5 467	551	16 287	1 104										
69 147	1 741	60 245	1 425	101	10	142	28	342	5	309	19	1 012	74										
18 408	474	17 779	425	10	—	15	—	192	—	40	—	237	—										
47 308	1 540	41 831	1 331	50	4	42	9	93	—	161	9	379	34										
3 399	113	635	38	41	6	85	19	57	—	108	10	396	40										
177 142	1 516	169 638	1 312	80	—	244	—	2 706	172	599	5	4 403	38										
6 500	250	5 511	177	10	—	47	—	1 670	135	154	5	243	8										
170 642	1 266	164 127	1 135	70	—	197	—	1 036	37	445	—	4 160	30										
543 025	41 835	405 595	31 220	85	36	60	12	64	19	158	16	762	54										
399 265	22 998	323 639	19 178	85	—	60	—	64	—	158	—	272	—										
59 030	7 220	53 159	6 491	—	36	—	12	—	19	—	—	—	—										
84 730	11 617	28 797	5 551	4 209	403	2 858	477	4 923	771	4 401	511	10 110	938										
57 654	33 570	49 658	31 851	11	—	109	89	34	23	46	—	80	46										
40 519	30 672	39 210	29 683	4 177	377	2 568	332	3 329	293	4 205	435	9 767	780										
11 814	1 703	5 364	1 020	21	15	181	56	1 560	455	150	44	263	112										
5 321	1 195	5 084	1 148	—	—	—	—	—	—	—	—	—	—										
26 141	8 876	16 951	5 715	1 327	663	39 321	28 712	19 151	4 726	7 342	1 988	23 833	9 407										
6 266	3 190	3 241	2 099	97	39	4 501	3 854	2 929	635	627	407	8 245	4 440										
1 261	293	237	93	17	7	256	208	47	23	50	20	419	181										
149	44	106	26	23	14	20	10	6	—	35	30	322	254										
101	69	54	42	23	14	151	130	200	164	37	30	322	254										
4 076	2 447	2 616	1 747	32	9	2 241	1 944	417	291	205	129	3 231	1 317										
18	18	18	18	—	—	52	52	81	62	6	6	76	106										
39	12	16	8	—	—	209	180	20	11	60	46	252	126										
95	64	46	36	8	—	353	300	59	33	28	20	654	409										
170	54	67	17	8	—	1 214	1 005	96	48	180	112	1 993	1 085										
357	189	161	112	17	9	—	—	—	—	—	—	—	—										
2 338	1 003	1 031	404	86	74	10 940	9 150	200	134	317	232	1 368	878										
112	104	9	9	36	36	428	428	—	—	21	21	289	253										
799	148	480	93	7	7	1 686	1 197	96	52	137	81	158	56										
1 427	751	536	302	43	31	8 826	7 525	104	82	159	130	921	569										
15 141	3 449	11 404	2 609	954	409	12 097	5 425	12 442	1 541	5 647	919	12 341	3 200										
655	56	366	53	20	—	262	66	436	19	209	27	684	76										
899	521	728	378	65	46	3 038	2 659	783	375	197	108	1 481	1 155										
13 391	2 842	10 144	2 156	843	343	8 705	2 671	11 089	1 142	5 091	14	9 770	1 956										
176	30	146	22	26	20	56	22	125	5	18	14	40	6										
20	—	—	—	—	—	—	—	—	—	—	—	—	—										
2 396	1 234	1 175	603	190	141	11 783	10 303	5 580	2 416	751	430	1 879	1 089										
27	10	21	9	7	—	71	46	16	2	16	16	42	6										
57	36	21	24	—	—	34	15	24	—	24	—	223	48										
95	36	68	30	19	6	270	162	16	7	15	—	82	74										
202	35	93	15	6	—	3 272	341	65	958	34	34	256	91										
96	40	51	17	6	—	498	54	49	27	49	27	143	50										
24	17	7	—	14	14	140	73	69	—	143	115	91	—										
—	—	—	—	—	—	—	—	—	—	—	—	—	—										
5	—	5	—	3	—	8	8	5	—	8	—	25	4										
428	238	341	174	21	10	5 571	5 047	436	275	158	104	63	41										
938	550	336	186	90	81	4 219	3 705	819	467	139	98	542	472										
521	308	238	171	131	30	1 313	1 163	453	308	134	52	412	235										
1 468	258	1 133	217	132	—	1 737	230	32 872	2 871	1 821	160	1 815	126										
6	—	6	—	6	—	11	5	125	17	9	9	13	—										
1 243	194	957	170	112	—	1 578	203	31 819	2 711	1 703	148	1 722	113										
89	7	62	68	5 264	—	26 241	179	72	382	72	111	48	—										
730	41	512	30	106	—	1 409	93	26 289	2 247	1 323	259	1 574	83										
422	146	383	133	6	—	—	—	—	82	37	—	86	25										
2	—	—	—	—	—	8	8	25	—	49	—	14	—										

Employed persons 16 years and over—Con.

Service occupations	Private household occupations	Protective service occupations	Supervisors, protective service occupations	Supervisors, firefighting and fire prevention occupations	Supervisors, police and detectives	Supervisors, guards	Firefighting and fire prevention occupations	Fire inspection and fire prevention occupations	Firefighting occupations	Police and detectives	Police and detectives, public service	Sheriffs, bailiffs, and other law enforcement officers	Correctional institution officers	Guards	Crossing guards	Guards and police, except public service	Protective service occupations, n.e.c.														
Food preparation and service occupations	Supervisors, food preparation and service occupations	Butchers	Waiters and waitresses	Cooks, except short order	Short-order cooks	Food counter, fountain and related occupations	Kitchen workers, food preparation	Waiters and waitresses' assistants	Miscellaneous food preparation occupations	Health service occupations	Dental assistants	Nurses, except nursing	Nursing aides, orderlies, and attendants	Cleaning and building service occupations, except household	Janitors and cleaners	Maid and housework	Janitors and cleaners	Elevator operators	Pest control occupations	Personal service occupations	Supervisors, personal service occupations	Barbers	Hairdressers and cosmetologists	Attendants, amusement and recreation facilities	Guides	Ushers	Public transportation attendants	Baggage porters and bellhops	Welfare service aides	Child care workers, except private household	Personal service occupations, n.e.c.
Farming, forestry, and fishing occupations	Farm operators and managers	Farm occupations, except managerial	Related agricultural occupations	Supervisors, related agricultural occupations	Groundkeepers and gardeners, except farm	Animal caretakers, except farm	Graders and sorters, agricultural products	Inspectors, agricultural products																							

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States		Public administration—Con.									
Justice, public order, and safety		Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
68	24	14	—	148	22	656	124	74	12	41	6
—	—	—	—	—	—	—	—	—	—	—	—
41	14	12	—	50	3	69	82	2	12	2	4
27	10	2	—	91	19	372	42	26	12	23	2
151	40	—	—	—	—	215	19	46	—	39	7
3	—	—	—	—	—	272	—	35	—	19	—
130	33	—	—	—	—	119	12	—	—	6	—
18	7	—	—	—	—	128	7	27	—	14	7
19 431	767	1 266	214	7 900	1 406	12 286	545	18 835	690	102 801	4 984
8 744	145	503	45	1 848	85	4 378	49	8 890	152	61 382	2 575
638	19	40	—	59	—	335	6	686	20	4 230	61
8 106	126	463	45	1 789	85	4 043	43	8 204	132	57 152	2 514
4 108	3	183	9	638	26	1 444	—	3 564	42	27 910	962
3 373	—	115	—	453	6	995	—	1 939	23	7 083	190
271	—	33	9	73	13	103	—	237	—	16 698	674
146	—	10	—	51	—	52	—	820	19	110	—
48	—	25	—	15	—	98	—	6	—	266	11
95	—	10	—	17	—	33	—	31	—	172	44
106	—	25	—	20	—	151	—	48	—	2 175	25
61	—	36	—	—	—	12	—	20	—	28	—
744	—	7	—	239	9	886	13	754	24	2 548	104
38	—	7	—	9	—	34	—	47	—	655	33
1 124	59	76	13	208	41	282	19	1 619	19	11 617	611
893	53	41	6	106	9	172	15	1 207	17	8 205	379
24	1	15	7	36	14	18	—	147	—	466	62
14	—	13	—	19	6	9	—	26	—	162	7
117	—	7	—	13	—	13	—	23	—	137	—
169	5	7	—	26	12	68	—	164	—	800	55
7	—	—	—	—	—	15	4	52	2	1 827	108
154	—	26	—	113	—	86	—	143	7	2 621	26
1 938	67	135	14	582	18	1 311	11	2 077	40	11 801	778
22	9	13	—	1	—	—	—	26	—	365	79
165	—	8	—	35	—	15	—	59	2	216	6
7	—	—	—	39	—	9	—	226	7	119	—
133	27	7	—	12	—	11	—	24	24	179	64
30	—	4	—	45	10	15	—	18	6	22	—
1 035	18	14	3	152	5	492	1	806	—	6 822	144
546	13	89	11	296	—	769	10	923	8	3 934	498
5 021	64	228	18	3 354	285	6 037	284	5 485	103	19 762	815
1 008	9	27	—	287	39	880	31	1 130	19	1 623	29
63	—	—	—	39	—	—	—	60	—	15	—
196	—	—	—	20	—	68	—	150	—	164	—
10	—	—	—	6	—	42	—	635	—	36	5
47	—	—	—	8	—	15	15	16	—	36	—
692	9	27	—	214	39	22	16	904	19	79	—
4 013	55	201	18	3 067	246	5 157	253	4 355	84	18 139	786
72	—	—	—	98	—	136	11	30	—	332	—
6	—	—	—	2	—	11	—	6	—	34	—
670	16	55	2	14	—	—	—	671	14	3 546	58
1 748	5	47	9	21	5	2 159	81	1 502	17	6 637	503
49	—	—	—	385	—	10	—	93	—	162	—
424	15	41	—	630	124	14	83	545	11	3 056	153
18	—	—	—	—	—	2	—	18	—	—	—

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.	
Supervisors, forestry and logging workers	
Forestry workers, except logging	
Timber cutting and logging occupations	
Fishers, hunters, and trappers	
Captains and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations	
Mechanics and repairers	
Supervisors, mechanics and repairers	
Mechanics and repairers, except supervisors	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationary engine mechanics	
Aircraft engine mechanics	
Small engine repairers	
Automobile body and related repairers	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairers, communications and industrial equipment	
Data processing equipment repairers	
Household appliance and power tool repairers	
Telephone line installers and repairers	
Telephone installers and repairers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Camera, watch, and musical instrument repairers	
Locksmiths and safe repairers	
Office machine repairers	
Mechanical controls and valve repairers	
Elevator installers and repairers	
Mechanical installers and repairers	
Mechanical repairers	
Specialized mechanics and repairers, n.e.c.	
Not specified mechanics and repairers	
Construction trades	
Supervisors, construction occupations	
Supervisors, brickmasons, stonemasons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, n.e.c.	
Construction trades, except supervisors	
Brickmasons and stonemasons	
Tile setters, hard and soft	
Carpenters	
Corset makers	
Drywall installers	
Electricians	
Electrical power installers and repairers	
Painters, construction and maintenance	
Paperhangers	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Public administration—Con.									
	Justice, public order, and safety		Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States										
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Construction trades, except supervisors—Con.										
Masons	13	13	13	13	19	—	25	—	—	—
Plumbers, pipefitters, and steamfitters	606	221	38	7	284	—	806	21	—	—
Concrete and masonry finishers	17	17	—	—	6	—	19	—	—	—
Glaziers	6	6	—	—	20	—	19	—	—	—
Insulation workers	3	—	—	—	132	27	52	5	—	—
Paving, surfacing, and tamping equipment operators	2	—	—	—	11	—	16	—	—	—
Roofers	6	—	—	—	10	—	19	—	—	—
Sheetmetal duct installers	7	—	—	—	10	—	16	—	—	—
Structural metal workers	—	—	—	—	—	—	—	—	—	—
Drillers, earth	—	—	—	—	—	—	—	—	—	—
Construction trades, n.e.c.	346	—	—	—	2	—	19	—	—	—
Extraction occupations	43	327	6	13	64	13	271	52	16	4
Supervisors, attractive occupations	8	32	6	—	22	7	25	5	7	25
Drillers, oil well	—	8	6	—	5	—	9	5	—	—
Explosives workers	12	—	—	—	—	—	—	—	—	—
Mining machine operators	11	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	12	12	—	—	14	7	12	—	—	19
Precision production occupations	5 623	2 836	529	151	2 676	1 029	1 846	207	4 372	1 569
Supervisors, production occupations	3 418	1 753	423	142	1 538	633	892	153	1 927	5 633
Precision metalworking occupations	332	11	17	—	237	34	237	13	713	20
Tool and die makers	6	—	—	—	11	—	—	—	6	—
Precision assemblers, metal	—	—	—	—	—	—	—	—	—	—
Mechanists	236	111	39	2	113	21	154	6	459	20
Boilermakers	30	—	—	—	27	—	25	—	37	—
Precision grinders, files, and tool sharpeners	—	—	7	7	—	—	—	—	5	—
Patternmakers and model makers, metal	6	6	—	—	32	—	—	—	33	—
Lay-out workers	—	—	—	—	—	—	—	—	21	—
Precious stones and metals workers (jewelers)	12	—	—	—	7	—	5	—	205	—
Engravers, metal	42	—	5	—	18	7	31	7	6	—
Sheet metal workers	—	—	—	—	67	6	22	—	119	—
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	7	—
Precision woodworking occupations	13	6	—	—	17	5	13	—	25	—
Patternmakers and model makers, wood	9	6	—	—	6	—	—	—	—	—
Cabinet makers and bench carpenters	—	—	—	—	—	—	—	—	—	—
Furniture and wood finishers	—	—	—	—	11	5	13	—	25	—
Miscellaneous precision woodworkers	—	—	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	170	92	—	—	186	164	10	6	55	422
Dressmakers	107	80	—	—	154	153	8	6	41	337
Hatters	31	—	—	—	8	—	—	—	14	66
Shoemakers	10	8	—	—	11	6	—	—	—	19
Shoe repairers	—	—	—	—	5	—	—	—	—	—
Apparel and fabric patternmakers	—	—	—	—	8	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	11	4	—	—	—	—	2	—	—	—
Precision workers, assorted materials	54	5	6	—	135	56	16	—	61	151
Hand molders and shapers, except jewelers	—	—	—	—	6	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	—	—	—	—	—	—	4	—	3	—
Optical goods workers	—	—	—	—	70	15	—	—	21	—
Dental laboratory and medical appliance technicians	46	5	6	—	11	—	7	—	8	—
Bookbinders	—	—	—	—	30	30	—	—	6	—
Electrical and electronic equipment assemblers	8	—	—	—	12	6	5	—	18	—
Miscellaneous precision workers, n.e.c.	—	—	—	—	109	94	9	—	65	14
Precision food production occupations	176	2	8	—	26	17	9	—	46	45
Butchers and meat cutters	116	2	8	—	83	77	—	—	—	13
Bakers	53	2	—	—	—	—	—	—	—	32
Food bolting	7	—	—	—	—	—	—	—	19	—
Precision inspectors, testers, and related workers	86	6	2	—	31	13	16	—	832	27
Inspectors, testers, and graders	80	6	—	—	31	13	16	—	740	57
Adjusters and calibrators	6	—	2	—	—	—	—	—	92	18

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Justice, public order, and safety				Public administration—Con.				Administration of economic programs				National security and international affairs			
	Local government		Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs		Administration of economic programs		National security and international affairs	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States																
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Precision production occupations—Con.																
Plant and system operators	1 374	8	710	6	22	—	385	30	694	31	1 548	29	694	31	1 548	29
Water and sewage treatment plant operators	77	—	17	—	—	—	50	6	39	—	455	9	39	—	455	9
Power plant operators	84	—	—	—	—	—	37	—	57	—	112	—	57	—	112	—
Stationary engineers	907	2	405	6	22	—	286	19	579	31	854	20	579	31	854	20
Miscellaneous plant and system operators	306	6	288	6	—	—	12	5	19	—	127	—	19	—	127	—
Operators, fabricators, and laborers	14 282	1 419	10 465	895	3 183	1 241	12 377	4 007	21 569	2 906	54 362	5 931	21 569	2 906	54 362	5 931
Machine operators, assemblers, and inspectors	4 887	700	3 352	445	1 949	1 000	3 897	1 524	7 059	1 523	21 329	2 537	7 059	1 523	21 329	2 537
Machine operators and tenders, except precision	3 796	614	2 793	400	1 478	723	3 646	1 103	3 864	784	12 513	1 699	3 864	784	12 513	1 699
Metallurgy and plastic working machine operators	124	11	83	6	34	34	73	57	82	18	611	90	82	18	611	90
Lathe and turning machine set-up operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mill and planing machine operators	78	11	51	7	7	7	6	6	17	5	215	36	17	5	215	36
Milling and planing machine operators	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Routing and shaping machine operators	—	—	—	—	27	21	46	46	7	—	25	—	7	—	25	—
Routing and shaping machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	—	—	—	—	9	—	—	—	10	—	35	—	10	—	35	—
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forging machine operators	20	—	20	—	14	6	12	5	43	13	185	42	43	13	185	42
Numerical control machine operators	6	—	6	—	6	—	—	—	—	—	45	—	—	—	45	—
Miscellaneous metal, plastic, stone, and glass working machine operators	13	—	6	—	—	—	—	—	—	—	27	7	—	—	27	7
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	5	5	—	—	5	5
Metal and plastic processing machine operators	27	5	27	5	47	9	10	—	13	6	129	14	13	6	129	14
Molding and casting machine operators	37	11	34	11	39	9	4	—	43	9	94	41	43	9	94	41
Metal casting machine operators	31	5	28	5	—	—	6	—	40	—	135	24	40	—	135	24
Heat treating equipment operators	6	6	6	6	8	—	—	—	10	—	67	26	10	—	67	26
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	6	—	117	11	6	—	117	11
Woodworking machine operators	7	—	—	—	5	—	—	—	7	—	85	—	7	—	85	—
Wood lath, routing, and planing machine operators	—	—	—	—	—	—	—	—	3	3	640	42	3	3	640	42
Sawing machine operators	—	—	—	—	5	—	13	—	9	3	7	—	9	3	7	—
Shaping and joining machine operators	—	—	—	—	—	—	9	3	—	—	4	—	—	—	4	—
Nailing and nailing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous woodworking machine operators	7	—	—	—	—	—	69	14	21	—	629	42	21	—	629	42
Printing machine operators	408	100	209	59	393	129	719	222	856	194	1 473	261	856	194	1 473	261
Photoengravers and lithographers	322	60	175	41	29	89	609	157	684	124	1 155	169	684	124	1 155	169
Typesetters and compositors	20	—	10	—	29	12	5	—	36	28	84	13	36	28	84	13
Miscellaneous printing machine operators	41	23	7	7	14	6	77	51	43	12	102	21	43	12	102	21
Textile, apparel, and furnishings machine operators	25	17	17	11	36	22	28	14	73	29	132	38	73	29	132	38
Winding and twisting machine operators	220	91	76	23	—	13	293	238	31	12	530	325	31	12	530	325
Knitting, looping, taping, and weaving machine operators	6	6	6	6	—	—	—	—	2	—	6	—	2	—	6	—
Textile cutting machine operators	6	6	—	—	—	—	41	41	9	—	5	—	9	—	5	—
Textile sewing machine operators	17	13	8	8	13	13	46	31	14	14	144	105	14	14	144	105
Shoe machine operators	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—
Pressing machine operators	166	58	51	9	2	—	196	3	43	22	77	40	43	22	77	40
Laundry and dry cleaning machine operators	17	—	—	—	—	—	7	—	—	—	20	8	—	—	20	8
Miscellaneous textile machine operators	3 175	396	2 366	302	959	540	1 460	569	2 752	518	8 176	906	2 752	518	8 176	906
Machine operators, assorted materials	10	7	10	7	51	9	9	31	42	12	25	20	42	12	25	20
Cementing and filling machine operators	7	—	—	—	—	—	—	—	18	—	85	—	18	—	85	—
Extruding and forming machine operators	2	—	2	—	47	27	107	66	58	27	117	46	58	27	117	46
Mixing and blending machine operators	41	19	23	7	19	17	5	5	40	26	20	—	40	26	20	—
Separating, filtering, and clarifying machine operators	3	—	15	6	—	—	—	—	—	—	10	—	—	—	10	—
Compressing and compacting machine operators	21	6	—	—	22	8	—	—	72	8	659	26	72	8	659	26
Painting and paint spraying machine operators	48	2	31	—	—	—	—	—	—	—	16	—	—	—	16	—
Roasting and baking machine operators, food	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Washing, cleaning, and pickling machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
[Data are estimates based on a sample, see Introduction. For meaning of symbols, see appendix A.]

United States		Public administration—Con.									
Justice, public order, and safety		Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
30	34	8	20	190	—	290	31	2	2	33	6
1 887	1 452	7	6	—	—	6	—	8	—	1 486	13
7	—	6	—	41	11	72	7	8	16	64	—
12	6	—	—	5	5	—	—	—	—	116	—
320	232	139	139	149	87	137	28	213	100	33	13
195	55	209	50	325	157	298	78	534	116	418	143
592	101	359	71	576	200	768	22	1 446	211	1 079	183
—	—	—	—	—	—	—	—	—	—	3 808	456
588	56	404	20	801	293	495	59	826	179	6 258	611
225	—	149	—	258	25	254	10	429	13	2 850	40
215	48	129	12	471	246	91	23	220	63	2 757	458
—	—	—	—	—	—	8	—	—	—	—	—
123	8	116	8	10	—	137	26	93	16	28	12
5	—	5	—	10	—	—	—	—	—	171	—
20	—	5	—	12	12	5	—	72	30	341	68
301	30	136	25	450	128	337	71	2 349	610	2 558	227
244	30	103	25	382	109	196	40	1 616	290	2 179	170
14	—	7	—	16	8	9	—	63	—	211	17
—	—	—	—	—	—	—	—	47	11	—	—
43	—	26	—	36	11	132	31	643	309	168	40
5 991	289	4 758	216	4 051	1 404	5 173	275	8 921	730	13 609	486
5 153	252	4 115	179	3 527	1 377	3 044	230	5 782	602	6 843	243
24	5	11	5	9	7	6	—	51	—	50	—
3 336	84	2 680	70	936	264	2 078	69	3 751	106	3 891	123
310	27	258	27	513	118	165	2	238	63	643	47
55	7	27	7	34	5	8	—	20	—	65	8
176	40	100	28	154	618	239	93	1 337	378	441	22
1 044	59	850	19	852	365	342	40	313	42	1 703	51
88	30	75	23	12	—	187	26	33	8	7	—
120	—	114	—	17	—	19	—	39	—	43	12
64	30	56	30	13	2	21	7	66	—	133	3
14	5	14	5	2	—	14	—	23	—	15	—
21	—	13	—	11	—	—	—	27	—	81	3
29	25	29	25	—	—	7	7	8	—	37	—
—	—	—	—	—	—	—	—	—	—	—	—
113	—	92	—	19	8	149	—	928	74	476	6
53	—	38	—	6	3	66	—	92	—	177	—
14	—	8	—	5	—	41	—	147	7	228	6
7	—	7	—	5	5	10	—	20	2	8	—
39	—	39	—	—	—	32	—	669	65	63	—
661	7	495	7	492	17	1 959	38	2 145	54	6 157	214
26	—	10	—	23	3	15	—	54	—	342	18
265	—	187	—	125	—	937	18	1 084	23	749	46
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	3	—	—	—	19	—	30	—
10	—	10	—	2	—	34	—	164	—	705	—
57	—	46	—	37	—	130	—	168	7	44	—
105	—	85	—	24	—	132	—	161	—	110	—
135	—	94	—	221	7	500	12	292	6	3 590	123
63	7	63	7	57	7	211	—	203	18	592	27

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, except precision—Con.
Machine operators, except precision—Con.
Folding machine operators
Furnace, kiln, and oven operators, except food
Crushing and grinding machine operators
Slicing and cutting machine operators
Milling machine operators
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified
Fabricators, assemblers, and hand working occupations
Welders and cutters
Solders and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating, and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations
Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production simulators and weighers
Graders and sorters, except agricultural
Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.
Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.
Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders
Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																							
Public administration—Con.																							
Justice, public order, and safety				Public finance, taxation, and monetary policy				Administration of human resources programs				Administration of environmental quality and housing programs				Administration of economic programs				National security and international affairs			
Total		Local government		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
3 404	430	2 372	234	785	194	4 429	1 079	6 208	610	5 589	653	19 424	2 908										
101	15	36	—	2	—	109	62	61	12	75	21	230	26										
54	2	35	2	7	—	5	—	32	—	55	7	321	52										
49	—	23	—	2	—	137	12	346	24	168	7	333	61										
45	—	19	—	2	—	109	6	121	11	27	—	326	54										
4	—	4	—	—	—	28	6	225	13	141	7	7	7										
—	—	—	—	—	—	—	—	—	—	—	—	—	—										
369	7	289	—	14	—	362	19	786	36	897	42	528	25										
106	42	62	11	16	—	161	56	75	9	227	45	538	117										
282	31	195	31	144	20	322	29	314	24	487	44	2 341	315										
135	19	94	19	22	—	57	—	161	14	30	—	71	—										
—	—	—	—	—	—	—	—	—	—	—	—	—	—										
4	—	—	—	6	—	3	—	—	—	18	—	67	—										
58	12	40	12	35	7	74	—	13	—	90	11	849	202										
3	—	—	—	43	—	43	26	23	8	20	9	16	—										
82	—	61	—	81	13	145	3	117	2	329	24	1 338	113										
248	27	219	12	16	—	18	2	37	—	146	—	206	12										
261	29	186	20	29	—	47	—	81	7	67	18	534	33										
83	32	22	6	37	5	126	72	81	27	207	74	3 313	835										
1 851	245	1 305	152	518	169	3 142	827	4 395	476	3 260	395	11 060	1 432										
Employed persons 16 years and over—Con.																							
Operators, fabricators, and laborers—Con.																							
Hauliers, equipment cleaners, helpers, and laborers																							
Supervisors, handlers, equipment cleaners, and laborers																							
n.e.c.																							
Helpers, mechanics and repairers																							
Helpers, construction and extractive occupations																							
Helpers, construction trades																							
Helpers, surveyor																							
Helpers, extractive occupations																							
Construction laborers																							
Production helpers																							
Freight, stock, and material handlers																							
Garage collectors																							
Streets																							
Stock handlers and longshoes																							
Machine feeders and offshoots																							
Freight, stock, and material handlers, n.e.c.																							
Garage and service station related occupations																							
Vehicle washers and equipment cleaners																							
Hand packers and packagers																							
Laborers, except construction																							

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyors
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Appendix A.—Definitions and Explanations of Subject Characteristics

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GENERAL

The 1980 census was conducted primarily through self-enumeration. The principal determinant for the response was, therefore, the questionnaire and its accompanying instruction guide. Furthermore, census takers were instructed, in their telephone and personal-visit interviews, to read the questions directly from the questionnaire. The definitions and explanations given below for each subject are drawn largely from various technical and procedural materials used in the collection of the data. These materials helped the census interviewers to understand more fully the intent of each question and, thus, to resolve problems or unusual cases in a manner consistent with this intent. Also included is certain explanatory information to assist the user in the proper utilization of the statistics.

Facsimiles of the questionnaire pages containing the population and housing questions used to produce the data shown in this report and the pages of the respondent instruction guide which relate to these questions are presented in appendix D.

INDUSTRY AND OCCUPATION AND CLASS OF WORKER

Introduction

The data on industry and occupation were derived from answers to questions 28 and 29, respectively. Industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work the person does on the job. For employed persons who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. For unemployed persons the data refer to the last job. The industry and occupation statistics are derived

from the detailed classification systems developed for the 1980 census (see below). The 1980 Census of Population: *Classified Index of Industries and Occupations* (PHC80-R4), 1982, U.S. Government Printing Office, Washington, D.C., provides additional information on the industry and occupation classification systems.

Clerical staff in the Bureau's processing offices converted the written industry and occupation descriptions from the questionnaire to identifying codes by relating these descriptions to an entry in the 1980 Census of Population: *Alphabetical Index of Industries and Occupations* (PHC80-R3), 1982, U.S. Government Printing Office, Washington, D.C. For the industrial code, however, these coders first referred to a Company Name List. This list, prepared from the Standard Statistical Establishment List developed by the Bureau of the Census for use in the economic censuses and surveys, contains the names of establishments and their Standard Industrial Classification codes converted to population census equivalents. This list facilitates coding and helps maintain industrial classification comparability.

Occupation Classification System

The system developed for the 1980 census consists of 503 specific occupation categories arranged into 6 summary and 13 major occupation groups. This classification was developed to be consistent with the 1980 *Standard Occupational Classification Manual* (SOC)¹, published by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards. This is the first time there was a United States standard to use

¹ *Standard Occupational Classification Manual: 1980*. Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 003-005-00187-5. Price \$17.00.

in developing the census occupational classification.

The SOC Manual presents a list of 12 principles used in occupational classification. The primary principles used were (1) the classification should realistically reflect the current occupational structure of the United States and (2) an occupation should be classified on the basis of work performed. The conversion of the census classification to the SOC has caused the 1980 census classification to be less comparable with the classifications used in earlier censuses. (See the section on "Comparability With Earlier Census Data.")

This report presents selected groupings of the 503 categories. Table 4 with 447 occupation categories presents the most detailed classification used in this report. Most of the categories that are not shown separately are those occupations that fall into one industry, such as "Teachers, postsecondary" and "Private household occupations." An intermediate level is used in the other tables that present demographic and economic characteristics. List A at the end of this appendix presents the relationship between the detailed and intermediate levels of classification.

Industry Classification System

Definition—The industry classification system developed for the 1980 Census of Population consists of 231 categories classified into 13 major industry groups. Since 1940 the industrial classification has been based on the *Standard Industrial Classification Manual* (SIC)². The 1980 census classification was developed from the 1972 SIC published by the Executive Office of the President, Office of Management and Budget, and the 1977 Supplement to that manual.

The SIC is designed primarily to classify establishments by the type of industrial activity in which they are engaged. However, census reports, which are collected from households, differ in nature and detail from those obtained from establishment surveys. Therefore, the census classification systems, while

defined in SIC terms, cannot reflect the full detail in all categories.

Table 8 presents all 231 industry categories. An intermediate level is used in the other tables. List B at the end of this appendix shows the relationship between the detailed and intermediate levels.

Relation of Some Industry Groups to Similar Occupations or Class of Worker—

The industry category "Public administration" is limited to regular government functions such as legislative, judicial, administrative, and regulatory activities of governments. Other government organizations such as schools, hospitals, liquor stores, and bus lines are classified by industry according to the activity in which they are engaged. On the other hand, the class of worker government categories include all government workers.

Some occupation groups are closely related to certain industries. Operators of transportation equipment, farm operators and workers, and private household workers account for major portions of their respective industries of transportation, agriculture, and private households. The industry categories, however, include persons in other occupations. For example, persons employed in agriculture include truck drivers and bookkeepers; persons employed in the transportation industry include mechanics, freight handlers, and bookkeepers; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

Class of Worker

The data on class of worker were derived from answers to question 30. The information on class of worker refers to the same job as a respondent's industry and occupation and categorizes persons according to the type of ownership of the employing organization. The definitions of the class of worker categories shown in this report are as follows:

Private Wage and Salary Workers—Private wage and salary workers are persons who work for a private employer for wages, salary, commission, tips, pay-in-kind, or at piece rates. Self-employed persons whose business is incorporated are included here because they are paid employees of their own companies.

Government Workers—Government workers are employees of any Federal, State, or local governmental unit, regardless of the activity of the particular agency.

Self-employed Workers—Self-employed workers are those who work for profit or fees in their own unincorporated business, profession, or trade, or who operate a farm.

Unpaid Family Workers—Unpaid family workers are persons who work without pay in a business or on a farm operated by a relative.

In tabulations that categorize persons as either salaried or self-employed, the salaried category includes private and government wage and salary workers, while the self-employed includes self-employed persons and unpaid family workers.

Sample Edit and Allocation Procedures

Occasionally respondents supplied industry, occupation, or class of worker descriptions which were not sufficiently specific for precise classification or did not report on these items. Some of these cases were corrected through the field editing process and during the coding and tabulation operations. In the coding operation certain types of incomplete entries were corrected using the *Alphabetical Index of Industries and Occupations*. For example, it is possible in certain situations to assign an industry code based on the occupation reported.

Following the coding operation, there was a computer edit and allocation process. The edit first determined whether a respondent was in the universe which required an industry and occupation code. The codes for the three items (industry, occupation, and class of worker) were checked to make sure they were valid and were edited for their relation to each other. Invalid and inconsistent codes were either blanked or changed to a consistent code.

If one or more of the three codes were blank after the edit, a code was allocated from a "similar" person based on other items such as age, sex, education, farm or nonfarm residence, and weeks worked. If all the labor force and income data were also blank, all of these economic

² *Standard Industrial Classification Manual: 1972*. For sale by Superintendent of Documents, J.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. Price \$15.00. *1977 Supplement*. Stock No. 003-005-10176-0. Price \$2.00.

ms were allocated from one other person who did provide all the necessary data. This was the first census that allocated industry and occupation to detailed categories.

Comparability With Earlier Census Data

Comparability of industry and occupation data is affected by a number of factors, a major one being the systems used to classify the questionnaire responses. For both the industry and occupation classification systems, the basic structures are generally the same from 1940 to 1980, but changes in the individual categories limited comparability of the data from one census to another. These changes resulted from the need to recognize the "birth" of new industries and occupations, the "death" of others, and growth and decline in existing industries and occupations, as well as the desire of statisticians and other users for increased clarity in presentation of the data. Probably the greatest cause of incomparability is the movement of a segment of a category to a different category in the next census. Such movements are necessitated by changes in functions and respondent terminology, and refinement of category position.

In the 1980 census, the industry classification underwent limited change to reflect recent changes to the SIC. The occupation classification however was substantially revised because of the adoption of the Standard Occupational Classification by Federal agencies (see "Occupation Classification System"). During this entire period, from 1940 to 1980, the number of categories in the industry classification system increased from 132 to 231, and in the occupation system from 224 to 503.

Other factors that affect data comparability include the universe to which the data refer (in 1970, the age cutoff for the labor force was changed from 14 to 16 years); how the industry and occupation questions are worded on the questionnaire (for example, important changes were made in 1970); improvements in the coding procedures (the Company Name List technique was introduced in 1960); and how the "not reported" cases are handled. Prior to 1980, they were placed in residual categories, "Industry not reported" and "Occupation

not reported" categories. In 1970, an allocation process was introduced through which these cases were assigned to major groups. In 1980, the "Not reported" cases were assigned to individual categories. Therefore, the 1980 data for individual categories include some numbers of persons who would have been tabulated in a "Not reported" category in previous censuses.

The following publications contain information on the various factors affecting comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, *Sixteenth Census Reports, Population, Comparative Occupation Statistics for the United States, 1870 to 1940*; U.S. Bureau of the Census, *Occupational Trends in the United States, 1900 to 1950*, Working Paper No. 5, 1958; U.S. Bureau of the Census, *Changes Between the 1950 and 1960 Occupation and Industry Classifications—With Detailed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; and U.S. Bureau of the Census, *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical Paper No. 26, 1972.

Comparability With Other Data

Comparability between the statistics presented in this volume and statistics from other sources is affected by many of the factors described in the section on "Labor Force Status." These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holding. Industry data from population censuses cover all industries and all kinds of workers, whereas data from establishments often exclude private household workers, government workers, and the self-employed. Also, the replies from household respondents may differ in detail and nature from those obtained from establishments.

Occupation data from the census and data from government licensing agencies, professional associations, trade unions, etc., may not be as comparable as expected. Organizational listings often included persons not in the labor force or persons devoting all or most of their

time to another occupation; or the same person may be included in two or more different listings. In addition, relatively few organizations, except for those requiring licensing, attain complete coverage of membership in a particular occupation field.

Related Reports

Similar data on occupation by industry from earlier censuses have been published since 1950 in census reports entitled *Occupation by Industry*. Other subject reports on occupation and industry proposed for the 1980 census are *Occupational Characteristics* and *Industrial Characteristics*. The first report will cover a range of demographic and economic characteristics concentrating on occupation and the second report, on industry.

Current Population Survey

Data for selected occupation and industry categories are collected also by the Bureau of the Census in the Current Population Survey (CPS) and published monthly by the Bureau of Labor Statistics in *Employment and Earnings*. In addition, CPS data on major occupation and, occasionally, major industry group, for such characteristics as marital status, mobility, and income, are published annually by the Census Bureau in the *Current Population Reports* Series P-20 and P-60.

SEX

The data on sex were derived from answers to question 3, which was asked of all persons.

RACE

The data on race were derived from answers to question 4, which was asked of all persons. The concept of race as used by the Census Bureau reflects self-identification by respondents; it does not denote any clear-cut scientific definition of biological stock. Since the 1980 census obtained information on race through self-identification, the data represent self-classification by people according to the race with which they identify. Data presented for housing units, households, and families are classified by the race of the householder.

For persons who could not provide a single response to the race question, the race of the person's mother was used; however, if a single response could not be provided for the person's mother, the first race reported by the person was used. This is a modification of the 1970 census procedure in which the race of the person's father was used.

The category "White" includes persons who indicated their race as White, as well as persons who did not classify themselves in one of the specific race categories listed on the questionnaire but entered a response such as Canadian, German, Italian, Lebanese, or Polish. In the 1980 census, persons who did not classify themselves in one of the specific race categories but marked "Other" and wrote in entries such as Cuban, Puerto Rican, Mexican, or Dominican were included in the "Other" race category. In the 1970 census, most of these persons were included in the "White" category.

The category "Black" includes persons who indicated their race as Black or Negro, as well as persons who did not classify themselves in one of the specific race categories listed on the questionnaire but reported entries such as Jamaican, Black Puerto Rican, West Indian, Haitian, or Nigerian.

The category "American Indian, Eskimo, and Aleut" includes persons who classified themselves as such in one of the specific race categories. In addition, persons who did not report themselves in one of the specific race categories but entered the name of an Indian tribe or reported such entries as Canadian Indian, French American Indian, or Spanish American Indian were classified as American Indian.

The category "Asian and Pacific Islander" includes persons who indicated their race as Chinese, Filipino, Japanese, Asian Indian, Korean, Vietnamese, Hawaiian, Samoan, and Guamanian, as well as persons who provided write-in entries of such Asian and Pacific Islander groups as Cambodian, Laotian, Pakistani, and Fijian under the "Other" race category. Also, persons who did not classify themselves in one of the specific race categories but wrote in an entry indicating one of the nine specific categories listed above (e.g., Chinese or Filipino) were classified accordingly. For example, entries of Nipponese and Japanese Ameri-

can were classified as Japanese, entries of Taiwanese and Cantonese as Chinese, etc.

The category "Race, n.e.c." includes all other persons not included in the categories (White, Black, American Indian, Eskimo, and Aleut, and Asian and Pacific Islander) mentioned above. Persons reporting in the "Other" race category and providing write-in entries such as Eurasian, Cosmopolitan, Inter-racial, or a Spanish origin group (e.g., Mexican, Cuban, or Puerto Rican) were included in "Race, n.e.c." During the coding operations, each of the subgroups comprising "Race, n.e.c." were identified separately.

If the race entry was missing on the questionnaire for a member of a household, an answer was assigned in the computer according to the reported entries of race of other household members using specific rules of precedence of household relationship. If race was not entered for anyone in the household (excluding paid employees), the race of a householder in a previously processed household was assigned. This procedure is a variation of the general allocation process described in Appendix C, "Accuracy of the Data."

Comparability Between Sample and 100-Percent Data for Racial Groups—There may be differences between the *totals* for the racial groups based on 100-percent tabulations and sample tabulations. Such differences are the result of sampling variability, nonsampling error, and an additional edit and review performed on the sample questionnaires. For a further explanation of the differences between 100-percent and sample data, see *General Social and Economic Characteristics*, PC80-1-C. (For an explanation of sampling variability and nonsampling error, see Appendix C, "Accuracy of the Data.")

During the sample processing, the responses in the race question underwent more extensive review and edit than performed during the previous processing stages. Additional efforts were made to assign write-in entries to specific race categories and to resolve inconsistent and incomplete responses. The impact of this further work varies substantially by racial group and by geographic area, but is generally negligible. Most affected is the "Other" race category since a number of persons originally counted therein in the 100-percent tabulations were shifted into specific race categories in the sample

tabulations. For instance, a number of persons who marked the "Other" race category supplied a write-in entry (e.g., Canadian, Polish, Lebanese, Black Puerto Rican, or Jamaican) which indicated that they belonged in one of the specific race categories. Furthermore, persons in the "Other" category reported as Cambodian, Laotian, Thai, etc., were combined into an "Other Asian and Pacific Islander" category which, together with the specific Asian and Pacific Islander categories (e.g., Japanese, Chinese, Filipino, etc.), covers the entire Asian and Pacific Islander population. This total is obtainable only from the sample tabulations, not from the 100-percent tabulations.

Information now available indicates that, since the effects of the additional review and edit were generally limited and rather varied, the 100-percent tabulations are usually the preferable source for comparable data for racial groups. In the case of distributions for subjects covered only on a sample basis (e.g., education, labor force status, income, etc.) and data for the entire Asian and Pacific Islander population, the sample figures are the only data available and should be used within the context of the sampling variability associated with them.

Comparability With 1970 Census Data—Differences between 1980 census and 1970 census population totals by race seriously affect the comparability for certain race groups. First, a large number of Spanish origin persons reported their race differently in the 1980 census than in the 1970 census; this difference in reporting has a substantial impact on the counts and comparability for the "White" population and the "Race, n.e.c." or "Other" race population (shown as "All other" races in most 1970 publications). A much larger proportion of the Spanish origin population in 1980 than in 1970 reported their race in the questionnaire category "Other." Second, in 1970, most persons who marked the "Other" race category and wrote in a Spanish designation such as Mexican, Venezuelan, Latino, etc., were reclassified as "White." In 1980, such persons were not reclassified but remained in the "Other" race category. As a result of this procedural change and the differences in reporting by this population, the proportion of the Spanish origin population classified as "Other"

race in the 1980 census was substantially higher than that in the 1970 census. Nationally, in 1970, only 1 percent of Spanish origin persons were classified as "Other" race and 93 percent as "White." The 1980 census sample data showed a much larger proportion, 38 percent of Spanish origin persons reported their race as "Other" and only 58 percent reported "White." As a consequence of these differences, 1980 population totals for "White" and "Other" are not comparable with corresponding 1970 figures.

The 1980 count for the Asian and Pacific Islander population reflects a high level of immigration during the 1970's as well as a number of changes in census procedures which were developed, in part, as a result of this high level of immigration. First, the number of Asian and Pacific Islander categories listed separately on the 1980 census questionnaire was expanded to include four additional groups: Vietnamese, Asian Indian, Guamanian, and Samoan. Asian Indians were classified as "White" in 1970, but were included in the "Asian and Pacific Islander" category in 1980. The Vietnamese, Guamanian, and Samoan populations were included in the "Other" race category in the 1970 census but were included in the "Asian and Pacific Islander" category in 1980. Second, "Other Asian and Pacific Islander" groups such as Cambodian, Laotian, Pakistani, and Fiji Islander were identified and tabulated as Asian and Pacific Islander in sample tabulations in the 1980 census. In 1970, most of these groups were included in the "Other" race category.

AGE

The data on age were derived from answers to question 5, which was asked of all persons. Only the information in questions 5b and 5c (month and year of birth) was read into the computer. Answers to question 5a on age at last birthday were used during field review to fill in any blanks in question 5c. The age classification is based on the age of the person in completed years as of April 1, 1980. The data on age represent the difference, as calculated in the computer, between date of birth and April 1, 1980. The median ages shown in this report were computed from data for

six age categories. If the median fell in the terminal category of an age distribution, the method of presentation was to show the initial age of the terminal category followed by a plus sign; thus, if the median fell in the category "65 years and over," it is shown as "65+."

SPANISH/HISPANIC ORIGIN

The data on Spanish/Hispanic origin or descent were derived from answers to question 7, which was asked of all persons.

Persons of Spanish/Hispanic origin or descent are those who reported Mexican, Puerto Rican, Cuban or other Spanish/Hispanic origin in question 7. Persons who reported "other Spanish/Hispanic" origin were those whose origins are from Spain or the Spanish-speaking countries of Central or South America, or they are persons identifying their origin or descent as being Spanish, Spanish-American, Hispano, Latino, etc.

Origin or descent can be viewed as the ancestry, nationality group, lineage, or country in which the person or person's parents or ancestors were born before their arrival in the United States. It is important to note that persons of Spanish origin may be of any race. Data are presented for housing units, households, and families classified by the Spanish origin of the householder.

Persons of more than one type of Spanish origin and persons of both a Spanish and some other origin(s) who were in doubt as to how to report origin were classified according to the origin of the person's mother. If a single origin was not provided for the person's mother, the first reported origin of the person was recorded.

If any household member failed to respond to the Spanish/Hispanic origin question, in the 100-percent edit a response was assigned by computer according to the reported entries of other household members by using specific rules of precedence of household relationship. If origin was not entered for any household member (excluding a paid employee), origin was assigned from another household according to the race of the householder. The sample processing included more extensive edit procedures. For example, if any household member failed to respond to the Spanish/Hispanic origin

question, a response was first assigned from available related information, such as ancestry and place of birth, reported for the individual. These edit procedures are a variation of the general allocation process described in Appendix C, "Accuracy of the Data."

Limitations of the Data

A preliminary evaluation study of the reporting in the 1980 census item on Spanish origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few States in the North Central Region. Also, results based on available data suggest that the impact of potential misreporting of Mexican origin in the 1980 census is severe in those portions of the abovementioned regions where the Spanish origin population is generally sparse. However, 1980 census data on the Mexican origin population or total Spanish origin population, at the national level, are not seriously affected by the reporting problem. For a more detailed discussion of the evaluation of the Spanish origin item, see the 1980 population census Supplementary Report, *Persons of Spanish Origin by State: 1980*, PC80-S1-7.

The data on the Spanish origin population shown in this report may differ from comparable figures shown in other 1980 census reports. Such differences are the result of sampling variability, nonsampling error, and more extensive edit procedures performed for the Spanish origin item on the sample questionnaires. The data in this report are based on a sample, whereas certain other reports (e.g., the PC80-1-B series) present data based on 100-percent tabulations. For a fuller explanation about the differences between 100-percent and sample data, see *General Social and Economic Characteristics*, PC80-1-C.

Comparability With 1970 Census Data

The 1980 data on Spanish origin are not directly comparable with those of 1970 because of several factors; namely, overall improvements in the 1980 census, better coverage of the population, im-

proved question design, and an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups. These efforts at census improvement explain, in part, the large increase in the number of Hispanics over 1970. Also, these efforts undoubtedly resulted in the inclusion of a sizeable but unknown number of persons of Hispanic origin who are in the country in other than legal status.

In the 1980 census Spanish origin question, specific changes in design from the 1970 question included the placement of the category "No, not Spanish/Hispanic" as the first category in that question. (The corresponding category appeared last in the 1970 question.) Also, the category "Central or South American" was deleted because in 1970 some respondents misinterpreted the category; furthermore, the designations "Mexican-American" and "Chicano" were added to the Spanish origin question in 1980. In the 1970 census, the question on Spanish origin was asked of only a 5-percent sample of the population; in the 1980 census, the Spanish origin question was asked of everyone in the Nation.

YEARS OF SCHOOL COMPLETED

The data on years of school completed were derived from answers to questions 9 and 10. Persons whose education was received in a foreign school system or an ungraded school were instructed to report the approximate equivalent grade in the regular American school system. If a person was currently attending or did not finish (item 10) the highest grade attended (item 9), he or she was tabulated as having completed the previous grade or year.

If the person did not attend college but finished high school by an equivalency test (GED), the person was instructed to mark grade 12 (high school, 4 years).

"Percent high school graduates" includes persons who completed four years of high school as well as those who completed one or more years of college.

REFERENCE WEEK

The data on labor force status and journey to work relate to the calendar week

preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents because not all persons were enumerated during the same week.

LABOR FORCE STATUS

The data on labor force status were derived from answers to questions 22, 25, and 26. The "labor force" includes all persons in the civilian labor force plus members of the Armed Forces (persons 16 years old and over on active duty with the U.S. Army, Navy, Air Force, Marine Corps, or Coast Guard). The "civilian labor force" consists of persons classified as employed or unemployed in accordance with the criteria described below.

All persons 16 years old and over who are not classified as members of the labor force are defined as "not in labor force." This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an "off" season who were not looking for work, inmates of institutions, disabled persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

Employed—Employed persons include all civilians 16 years old and over who were either (a) "at work"—those who did any work at all during the reference week as paid employees or in their own business or profession, or on their own farm, or who worked 15 hours or more as unpaid workers on a family farm or in a family business; or (b) were "with a job but not at work"—those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or volunteer work for religious, charitable, and similar organizations.

Unemployed—Persons are classified as unemployed if they were civilians 16 years old and over and (a) were neither "at work" nor "with a job but not at work" during the reference week, (b) were looking for work during the last 4 weeks, and (c) were available to accept a job. Also included as unemployed are

persons who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off.

Experienced Unemployed—Unemployed persons who have worked at any time in the past are classified as the "Experienced unemployed."

Experienced Civilian Labor Force—The "experienced civilian labor force" comprises the employed and the experienced unemployed.

Actual Hours Worked—All persons in the sample who reported working during the reference week were asked to report in item 22b the number of hours that they worked. The statistics on hours worked pertain to the number of hours actually worked at all jobs, and do not necessarily reflect the number of hours usually worked or the scheduled number of hours. The number of persons who worked only a small number of hours is probably understated since such persons sometimes consider themselves as not working.

INCOME IN 1979

The data on income in 1979 were derived from answers to questions 32 and 33. Information on money income received in the calendar year 1979 was requested from persons 15 years old and over. "Total income" is the algebraic sum of the amounts reported separately for wage and salary income; nonfarm net self-employment income; farm net self-employment income; interest, dividend, royalty, or net rental income; Social Security or Railroad Retirement income; public assistance or welfare income; and all other income. The figures represent the amount of income received regularly before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

"Wage or salary income" is defined as the total money earnings received for work performed as an employee at any time during the calendar year 1979. It includes wages, salary, pay from Armed Forces, commissions, tips, piece rate payments, and cash bonuses earned. "Non-farm net self-employment income" is defined as net money income (gross receipts minus business expenses) received

om a business, professional enterprise, partnership in which the person was engaged on his or her own account. "Farm net self-employment income" is defined as the net money income (gross receipts minus operating expenses) received from the operation of a farm by a person on his or her own account, as an owner, renter, or sharecropper. "Earnings" is defined as the algebraic sum of wage or salary income and net income from nonfarm and farm self-employment. Interest, dividend, royalty, or net rental income" includes interest on savings or bonds, dividends from stockholdings or membership in associations, net royalties, and net income from rental of property to others and receipts from boarders or lodgers. "Social Security income" includes Social Security pensions and survivors' benefits and permanent disability insurance payments made by the Social Security Administration, prior to deductions for medical insurance, and railroad retirement insurance checks from the U.S. Government. "Medicare" reimbursements are not included. "Public assistance" or public welfare income includes (1) Supplemental Security income payments made by Federal, State, or local welfare agencies to low income persons who are aged (65 years old or over), blind, or disabled, (2) Aid to Families with Dependent Children, and (3) general assistance. Separate payments received for hospital or other medical care (and payments) are excluded from this item. "Income from all other sources" includes unemployment compensation, veterans' payments, public or private pensions, alimony or child support, workmen's compensation, periodic payments from estates and trust funds, periodic receipts from annuities or insurance, contributions received periodically from persons not living in the household, military family allotments, net gambling

winnings, and other kinds of periodic income other than earnings.

Receipts from the following sources were not included as income: money received from sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employers' contributions for pensions, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Although the income statistics cover the calendar year 1979, the characteristics of persons and the composition of households and families refer to the time of enumeration (April 1, 1980). However, the composition of most households and families was the same during 1979 as in April 1980.

The median income is the amount which divides the distribution into two equal groups, one having incomes above the median and the other having incomes below the median. For households, families, and unrelated individuals the median income is based on the distribution of the total number of units including those with no income. The median income values for all households, families, and unrelated individuals are computed on the basis of more detailed income intervals than shown in this report. Median income figures of \$30,000 or less are generally calculated using linear interpolation; all other median income amounts are derived through Pareto interpolation. For a detailed description of these interpolation procedures, see appendix B to the Current Population Reports, Series P-60, No. 129, *Money Income of Families and Persons in the United States: 1979*.

The mean income is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean household income is obtained by dividing total household income by the total number of households. For the various types of income the means are based on households having those types of income.

Per capita income is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population in that group.

Care should be exercised in using and interpreting mean or per capita values in the statistics for small areas or small subgroups of the population. Since the mean and per capita income amounts are strongly influenced by extreme values in the distribution, they are especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is therefore a better measure than the mean or per capita when the population base is small.

There may be differences between the data in this report on income in 1979 and similar data shown in the *Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas*, PHC80-3, reports and in the Supplementary Reports, *Advance Estimates of Social, Economic, and Housing Characteristics*, PHC80-S2. Any such differences are a result of errors corrected after the release of the PHC80-3 and the PHC80-S2 reports.

EARNINGS IN 1979

Earnings is defined as the algebraic sum of wage or salary income and net income from farm and nonfarm self-employment, as described above.

List A. INTERMEDIATE OCCUPATIONAL CLASSIFICATION (134) ITEMS WITH COMPONENT DETAILED CATEGORIES

This list presents the relationship between the detailed occupation stub used in Table 4 and the intermediate occupation stub used in Tables 1—3. Numbers in parentheses following the occupation categories are the SOC definitions.

EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS

1. Officials and administrators, public administration
Legislators, chief executives, and general administrators, public administration (111, 112)
Administrators and officials, public administration (1132-1139)
Administrators, protective services (1131)
2. Financial managers (122)
3. Managers, marketing, advertising, and public relations (125)
4. Administrators, education and related fields (128)
5. Managers, medicine and health (131)
6. Other specified managers
Personnel and labor relations managers (123)
Purchasing managers (124)
Managers, properties and real estate (1353)
Postmasters and mail superintendents (1344)
Funeral directors (Part 1359)
7. Managers and administrators, n.e.c. salaried (121, 126, 127, 132-139, exc. 1344, 1353, part 1359)
8. Managers and administrators, n.e.c., self-employed
9. Accountants and auditors (1412)
10. Personnel, training, and labor relations specialists (143)
11. Buyers and purchasing agents
Purchasing agents and buyers, farm products (1443)
Buyers, wholesale and retail trade, except farm products (1442)
Purchasing agents and buyers, n.e.c. (1449)
12. Inspectors and compliance officers
Construction inspectors (1472)
Inspectors and compliance officers, except construction (1473)
13. Other management related occupations
Underwriters (1414)
Other financial officers (1415, 1419)
Management analysts (142)
Business and promotion agents (145)
Management related occupations, n.e.c. (149)

PROFESSIONAL SPECIALTY OCCUPATIONS

14. Architects (161)
15. Civil engineers (1628)
16. Electrical and electronic engineers (1633, 1636)
17. Industrial engineers (1634)
18. Mechanical engineers (1635)
19. Other engineers
Aerospace engineers (1622)
Metallurgical and materials engineers (1623)
Mining engineers (1624)
Petroleum engineers (1625)
Chemical engineers (1626)
Nuclear engineers (1627)
Agricultural engineers (1632)
Marine engineers and naval architects (1637)
Engineers, n.e.c. (1639)
20. Surveyors and mapping scientists (164)
21. Computer systems analysts and scientists (171)
22. Operations and systems researchers and analysts (172)
23. Mathematical scientists
Actuaries (1732)
Statisticians (1733)
Mathematical scientists, n.e.c. (1739)
24. Chemists, except biochemists (1845)
25. Other natural scientists
Physicists and astronomers (1842, 1843)
Atmospheric and space scientists (1846)

PROFESSIONAL SPECIALTY OCCUPATIONS—CON.

- Other natural scientists—Con:
Geologists and geodesists (1847)
Physical scientists, n.e.c. (1849)
Agricultural and food scientists (1853)
Biological and life scientists (1854)
Forestry and conservation scientists (1852)
Medical scientists (1855)
26. Health diagnosing occupations
Physicians (261)
Dentists (262)
Veterinarians (27)
Optometrists (281)
Podiatrists (283)
Health diagnosing practitioners, n.e.c. (289)
27. Registered nurses (29)
28. Other health assessment and treating occupations
Pharmacists (301)
Dietitians (302)
Therapists (303)
Physicians' assistants (304)
29. Teachers, except postsecondary
Teachers, prekindergarten and kindergarten (231)
Teachers, elementary and secondary school (232, 233)
Teachers, special education (235)
Teachers, n.e.c. (236, 239)
30. Social scientists and urban planners
Economists (1912)
Psychologists (1915)
Sociologists (1916)
Social scientists, n.e.c. (1913, 1914, 1919)
Urban planners (192)
31. Social and recreation workers
Social workers (2032)
Recreation workers (2033)
32. Lawyers and judges
Lawyers (211)
Judges (212)
33. Writers, artists, entertainers, and athletes
Authors (321)
Technical writers (398)
Designers (322)
Musicians and composers (323)
Actors and directors (324)
Painters, sculptors, craft-artists, and artist printmakers (325)
Photographers (326)
Dancers (327)
Artists, performers, and related workers, n.e.c. (328, 329)
Editors and reporters (331)
Public relations specialists (332)
Announcers (333)
Athletes (34)
34. Other professional specialty occupations
Teachers, postsecondary (22)
Counselors, educational and vocational (24)
Librarians (251)
Archivists and curators (252)
Clergy (2042)
Religious workers, n.e.c. (2049)

TECHNICIANS AND RELATED SUPPORT OCCUPATIONS

35. Licensed practical nurses (366)

Appendix A.—Definitions and Explanations of Subject Characteristics

TECHNICIANS AND RELATED SUPPORT OCCUPATIONS—CON.

36. Other health technologists and technicians
 - Clinical laboratory technologists and technicians (362)
 - Dental hygienists (363)
 - Health record technologists and technicians (364)
 - Radiologic technicians (365)
 - Health technologists and technicians, n.e.c. (369)
37. Electrical and electronic technicians (3711)
38. Industrial and mechanical engineering technicians
 - Industrial engineering technicians (3712)
 - Mechanical engineering technicians (3713)
39. Drafting and surveying technicians
 - Drafting occupations (372)
 - Surveying and mapping technicians (373)
40. Other engineering and science technicians
 - Engineering technicians, n.e.c. (3719)
 - Biological technicians (382)
 - Chemical technicians (3831)
 - Science technicians, n.e.c. (3832, 3833, 384, 389)
41. Airplane pilots and navigators (825)
42. Air traffic controllers and broadcast equipment operators
 - Air traffic controllers (392)
 - Broadcast equipment operators (393)
43. Computer programmers (3971, 3972)
44. Other technicians, except health, engineering, and science
 - Tool programmers, numerical control (3974)
 - Legal assistants (396)
 - Technicians, n.e.c. (399)

SALES OCCUPATIONS

45. Supervisors and proprietors, sales occupations, salaried (40) *
46. Supervisors and proprietors, sales occupations, self-employed
47. Sales representatives, finance and business services
 - Insurance sales occupations (4122)
 - Real estate sales occupations (4123)
 - Securities and financial services sales occupations (4124)
 - Advertising and related sales occupations (4153)
 - Sales occupations, other business services (4152)
48. Sales representatives, commodities, except retail
 - Sales engineers (421)
 - Sales representatives, mining, manufacturing, and wholesale (423, 424)
49. Cashiers (4364)
50. Other sales occupations, retail and personal services
 - Sales workers, commodities (434, 435, 4363)
 - Street and door-to-door sales workers (4366)
 - News vendors (4365)
51. Sales related occupations
 - Demonstrators, promoters and models, sales (445)
 - Auctioneers (447)
 - Sales support occupations, n.e.c. (444, 446, 449)

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

52. Supervisors, administrative support occupations
 - Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
 - Supervisors, computer equipment operators (4512)
 - Supervisors, financial records processing (4521)
 - Chief communications operators (4523)
 - Supervisors; distribution, scheduling, and adjusting clerks (4522, 4524-4528)
53. Computer equipment operators
 - Computer operators (4612)
 - Peripheral equipment operators (4613)
54. Secretaries (4622)
55. Stenographers and typists
 - Stenographers (4623)
 - Typists (4624)
56. Receptionists (4645)

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL—CON.

57. Other information clerks
 - Interviewers (4642)
 - Hotel clerks (4643)
 - Transportation ticket and reservation agents (4644)
 - Information clerks, n.e.c. (4649)
58. File clerks (4696)
59. Other records processing occupations, except financial
 - Classified-ad clerks (4662)
 - Correspondence clerks (4663)
 - Order clerks (4664)
 - Personnel clerks, except payroll and timekeeping (4692)
 - Library clerks (4694)
 - Records clerks (4699)
60. Bookkeepers, accounting, and auditing clerks (4712)
61. Payroll and timekeeping clerks (4713)
62. Other financial records processing occupations
 - Billing clerks (4715)
 - Cost and rate clerks (4716)
 - Billing, posting, and calculating machine operators (4718)
63. Telephone operators (4732)
64. Mail and message distributing occupations
 - Postal clerks, except mail carriers (4742)
 - Mail carriers, postal service (4743)
 - Mail clerks, except postal service (4744)
 - Messengers (4745)
65. Production coordinators and expeditors
 - Production coordinators (4752)
 - Expeditors (4758)
66. Traffic, shipping, and receiving clerks (4753)
67. Stock and inventory clerks (4754)
68. Other material recording, scheduling, and distributing clerks
 - Meter readers (4755)
 - Weighers, measurers, and checkers (4756)
 - Samplers (4757)
 - Material recording, scheduling, and distributing clerks, n.e.c. (4759)
69. Adjusters and investigators
 - Insurance adjusters, examiners, and investigators (4782)
 - Investigators and adjusters, except insurance (4783)
 - Eligibility clerks, social welfare (4784)
 - Bill and account collectors (4786)
70. Data-entry keyers (4793)
71. Other administrative support occupations
 - Duplicating machine operators (4722)
 - Mail preparing and paper handling machine operators (4723)
 - Office machine operators, n.e.c. (4729)
 - Telegraphers (4733)
 - Communications equipment operators, n.e.c. (4739)
 - General office clerks (463)
 - Bank tellers (4791)
 - Proofreaders (4792)
 - Statistical clerks (4794)
 - Teachers' aides (4795)
 - Administrative support occupations, n.e.c. (4787, 4799)

PRIVATE HOUSEHOLD OCCUPATIONS

72. Private household occupations (50)

PROTECTIVE SERVICE OCCUPATIONS

73. Guards
 - Crossing guards (5142)
 - Guards and police, except public service (5144)
 - Protective service occupations, n.e.c. (5149)
74. Other protective service occupations
 - Supervisors, firefighting and fire prevention occupations (5111)
 - Supervisors, police and detectives (5112)
 - Supervisors, guards (5113)

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Veterinarians (27)
Optometrists (281)
Podiatrists (283)
Health diagnosing practitioners, n.e.c. (289)
27. Registered nurses (29)
28. Other health assessment and treating occupations
Pharmacists (301)
Dietitians (302)
Therapists (303)
Physicians' assistants (304)
29. Teachers, except postsecondary
Teachers, prekindergarten and kindergarten (231)
Teachers, elementary and secondary school (232, 233)
Teachers, special education (235)
Teachers, n.e.c. (236, 239)
30. Social scientists and urban planners
Economists (1912)
Psychologists (1915)
Sociologists (1916)
Social scientists, n.e.c. (1913, 1914, 1919)
Urban planners (192)
31. Social and recreation workers
Social workers (2032)
Recreation workers (2033)
32. Lawyers and judges
Lawyers (211)
Judges (212)
33. Writers, artists, entertainers, and athletes
Authors (321)
Technical writers (398)
Designers (322)
Musicians and composers (323)
Actors and directors (324)
Painters, sculptors, craft-artists, and artist printmakers (325)
Photographers (326)
Dancers (327)
Artists, performers, and related workers, n.e.c. (328, 329)
Editors and reporters (331)
Public relations specialists (332)
Announcers (333)
Athletes (34)
34. Other professional specialty occupations
Teachers, postsecondary (22)
Counselors, educational and vocational (24)
Librarians (251)
Archivists and curators (252)
Clergy (2042)
Religious workers, n.e.c. (2049)

TECHNICIANS AND RELATED SUPPORT OCCUPATIONS

35. Licensed practical nurses (366)

Appendix A.—Definitions and Explanations of Subject Characteristics

TECHNICIANS AND RELATED SUPPORT OCCUPATIONS—CON.

- 36. Other health technologists and technicians
 - Clinical laboratory technologists and technicians (362)
 - Dental hygienists (363)
 - Health record technologists and technicians (364)
 - Radiologic technicians (365)
 - Health technologists and technicians, n.e.c. (369)
- 37. Electrical and electronic technicians (3711)
- 38. Industrial and mechanical engineering technicians
 - Industrial engineering technicians (3712)
 - Mechanical engineering technicians (3713)
- 39. Drafting and surveying technicians
 - Drafting occupations (372)
 - Surveying and mapping technicians (373)
- 40. Other engineering and science technicians
 - Engineering technicians, n.e.c. (3719)
 - Biological technicians (382)
 - Chemical technicians (3831)
 - Science technicians, n.e.c. (3832, 3833, 384, 389)
- 41. Airplane pilots and navigators (825)
- 42. Air traffic controllers and broadcast equipment operators
 - Air traffic controllers (392)
 - Broadcast equipment operators (393)
- 43. Computer programmers (3971, 3972)
- 44. Other technicians, except health, engineering, and science
 - Tool programmers, numerical control (3974)
 - Legal assistants (396)
 - Technicians, n.e.c. (399)

SALES OCCUPATIONS

- 45. Supervisors and proprietors, sales occupations, salaried (40)
- 46. Supervisors and proprietors, sales occupations, self-employed
- 47. Sales representatives, finance and business services
 - Insurance sales occupations (4122)
 - Real estate sales occupations (4123)
 - Securities and financial services sales occupations (4124)
 - Advertising and related sales occupations (4153)
 - Sales occupations, other business services (4152)
- 48. Sales representatives, commodities, except retail
 - Sales engineers (421)
 - Sales representatives, mining, manufacturing, and wholesale (423, 424)
- 49. Cashiers (4364)
- 50. Other sales occupations, retail and personal services
 - Sales workers, commodities (434, 435, 4363)
 - Street and door-to-door sales workers (4366)
 - News vendors (4365)
- 51. Sales related occupations
 - Demonstrators, promoters and models, sales (445)
 - Auctioneers (447)
 - Sales support occupations, n.e.c. (444, 446, 449)

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

- 52. Supervisors, administrative support occupations
 - Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
 - Supervisors, computer equipment operators (4512)
 - Supervisors, financial records processing (4521)
 - Chief communications operators (4523)
 - Supervisors; distribution, scheduling, and adjusting clerks (4522, 4524-4528)
- 53. Computer equipment operators
 - Computer operators (4612)
 - Peripheral equipment operators (4613)
- 54. Secretaries (4622)
- 55. Stenographers and typists
 - Stenographers (4623)
 - Typists (4624)
- 56. Receptionists (4645)

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL—CON.

- 57. Other information clerks
 - Interviewers (4642)
 - Hotel clerks (4643)
 - Transportation ticket and reservation agents (4644)
 - Information clerks, n.e.c. (4649)
- 58. File clerks (4696)
- 59. Other records processing occupations, except financial
 - Classified-ad clerks (4662)
 - Correspondence clerks (4663)
 - Order clerks (4664)
 - Personnel clerks, except payroll and timekeeping (4692)
 - Library clerks (4694)
 - Records clerks (4699)
- 60. Bookkeepers, accounting, and auditing clerks (4712)
- 61. Payroll and timekeeping clerks (4713)
- 62. Other financial records processing occupations
 - Billing clerks (4715)
 - Cost and rate clerks (4716)
 - Billing, posting, and calculating machine operators (4718)
- 63. Telephone operators (4732)
- 64. Mail and message distributing occupations
 - Postal clerks, except mail carriers (4742)
 - Mail carriers, postal service (4743)
 - Mail clerks, except postal service (4744)
 - Messengers (4745)
- 65. Production coordinators and expeditors
 - Production coordinators (4752)
 - Expeditors (4758)
- 66. Traffic, shipping, and receiving clerks (4753)
- 67. Stock and inventory clerks (4754)
- 68. Other material recording, scheduling, and distributing clerks
 - Meter readers (4755)
 - Weighers, measurers, and checkers (4756)
 - Samplers (4757)
 - Material recording, scheduling, and distributing clerks, n.e.c. (4759)
- 69. Adjusters and investigators
 - Insurance adjusters, examiners, and investigators (4782)
 - Investigators and adjusters, except insurance (4783)
 - Eligibility clerks, social welfare (4784)
 - Bill and account collectors (4786)
- 70. Data-entry keyers (4793)
- 71. Other administrative support occupations
 - Duplicating machine operators (4722)
 - Mail preparing and paper handling machine operators (4723)
 - Office machine operators, n.e.c. (4729)
 - Telegraphers (4733)
 - Communications equipment operators, n.e.c. (4739)
 - General office clerks (463)
 - Bank tellers (4791)
 - Proofreaders (4792)
 - Statistical clerks (4794)
 - Teachers' aides (4795)
 - Administrative support occupations, n.e.c. (4787, 4799)

PRIVATE HOUSEHOLD OCCUPATIONS

- 72. Private household occupations (50)

PROTECTIVE SERVICE OCCUPATIONS

- 73. Guards
 - Crossing guards (5142)
 - Guards and police, except public service (5144)
 - Protective service occupations, n.e.c. (5149)
- 74. Other protective service occupations
 - Supervisors, firefighting and fire prevention occupations (5111)
 - Supervisors, police and detectives (5112)
 - Supervisors, guards (5113)

Appendix A.—Definitions and Explanations of Subject Characteristics

PROTECTIVE SERVICE OCCUPATIONS—CON.

Other protective service occupations—Con.

- Fire inspection and fire prevention occupations (5122)
- Firefighting occupations (5123)
- Police and detectives, public service (5132)
- Sheriffs, bailiffs, and other law enforcement officers (5134)
- Correctional institution officers (5133)

SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD

- 75. Food preparation and service occupations
 - Supervisors, food preparation and service occupations (5211)
 - Bartenders (5212)
 - Waiters and waitresses (5213)
 - Cooks, except short order (5214)
 - Short-order cooks (5215)
 - Food counter, fountain and related occupations (5216)
 - Kitchen workers, food preparation (5217)
 - Waiters' and waitresses' assistants (5218)
 - Miscellaneous food preparation occupations (5219)
- 76. Health service occupations
 - Dental assistants (5232)
 - Health aides, except nursing (5233)
 - Nursing aides, orderlies, and attendants (5236)
- 77. Cleaning and building service occupations, except household
 - Supervisors, cleaning and building service workers (5241)
 - Maids and housemen (5242, 5249)
 - Janitors and cleaners (5244)
 - Elevator operators (5245)
 - Pest control occupations (5246)
- 78. Personal service occupations
 - Supervisors, personal service occupations (5251)
 - Barbers (5252)
 - Hairdressers and cosmetologists (5253)
 - Attendants, amusement and recreation facilities (5254)
 - Guides (5255)
 - Ushers (5256)
 - Public transportation attendants (5257)
 - Baggage porters and bellhops (5262)
 - Welfare service aides (5263)
 - Child care workers, except private household (5264)
 - Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

- 79. Farming, forestry, and fishing occupations
 - Farm operators and managers (55)
 - Farm occupations, except managerial (561)
 - Supervisors, related agricultural occupations (5621)
 - Groundskeepers and gardeners, except farm (5622)
 - Animal caretakers, except farm (5624)
 - Graders and sorters, agricultural products (5625)
 - Inspectors, agricultural products (5627)
 - Supervisors, forestry and logging workers (571)
 - Forestry workers, except logging (572)
 - Timber cutting and logging occupations (573, 579)
 - Captains and other officers, fishing vessels (Part 8241)
 - Fishers (583)
 - Hunters and trappers (584)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

- 80. Supervisors, mechanics and repairers (60)
- 81. Automobile mechanics, including body
 - Automobile mechanics (6111)
 - Automobile body and related repairers (6115)
- 82. Industrial machinery repairers (613)
- 83. Electronic repairers, communications and industrial equipment (6151, 6153, 6155)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—CON.

- 84. Heating, air conditioning, and refrigeration mechanics (616)
- 85. Other mechanics and repairers
 - Bus, truck, and stationary engine mechanics (6112)
 - Aircraft engine mechanics (6113)
 - Small engine repairers (6114)
 - Aircraft mechanics, except engine (6116)
 - Heavy equipment mechanics (6117)
 - Farm equipment mechanics (6118)
 - Machinery maintenance occupations (614)
 - Data processing equipment repairers (6154)
 - Household appliance and power tool repairers (6156)
 - Telephone line installers and repairers (6157)
 - Telephone installers and repairers (6158)
 - Miscellaneous electrical and electronic equipment repairers (6152, 6159)
 - Camera, watch, and musical instrument repairers (6171, 6172)
 - Locksmiths and safe repairers (6173)
 - Office machine repairers (6174)
 - Mechanical controls and valve repairers (6175)
 - Elevator installers and repairers (6176)
 - Millwrights (6178)
 - Specified mechanics and repairers, n.e.c. (6177, 6179)
 - Not specified mechanics and repairers
- 86. Supervisors, construction occupations
 - Supervisors; brickmasons, stonemasons, and tile setters (6312)
 - Supervisors, carpenters and related workers (6313)
 - Supervisors, electricians and power transmission installers (6314)
 - Supervisors; painters, paperhangers, and plasterers (6315)
 - Supervisors; plumbers, pipefitters, and steamfitters (6316)
 - Supervisors, n.e.c. (6311, 6318)
- 87. Carpenters (6422)
- 88. Electricians (6432)
- 89. Painters, construction and maintenance (6442)
- 90. Plumbers, pipefitters, and steamfitters (645)
- 91. Other construction trades
 - Brickmasons and stonemasons (6412, 6413)
 - Tile setters, hard and soft (6414, part 6462)
 - Carpet installers (Part 6462)
 - Drywall installers (6424)
 - Electrical power installers and repairers (6433)
 - Paperhangers (6443)
 - Plasterers (6444)
 - Concrete and terrazzo finishers (6463)
 - Glaziers (6464)
 - Insulation workers (6465)
 - Paving, surfacing, and tamping equipment operators (6466)
 - Roofers (6468)
 - Sheetmetal duct installers (6472)
 - Structural metal workers (6473)
 - Drillers, earth (6474)
 - Construction trades, n.e.c. (6467, 6475, 6476, 6479)
- 92. Extractive occupations
 - Supervisors, extractive occupations (632)
 - Drillers, oil well (652)
 - Explosives workers (653)
 - Mining machine operators (654)
 - Mining occupations, n.e.c. (656)
- 93. Supervisors, production occupations (67, 71)
- 94. Tool and die makers (6811)
- 95. Machinists (6813)
- 96. Sheet metal workers (6824)
- 97. Other precision metal workers
 - Precision assemblers, metal (6812)
 - Boilermakers (6814)
 - Precision grinders, filers, and tool sharpeners (6816)
 - Patternmakers and model makers, metal (6817)
 - Lay-out workers (6821)
 - Precious stones and metals workers (Jewelers) (6822, 6866)
 - Engravers, metal (6823)
 - Miscellaneous precision metal workers (6829)

Appendix A.—Definitions and Explanations of Subject Characteristics

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—CON.

- 98. Precision textile, apparel, and furnishings machine workers
 - Dressmakers (Part 6852, part 7752)
 - Tailors (Part 6852)
 - Upholsterers (6853)
 - Shoe repairers (6854)
 - Apparel and fabric patternmakers (6856)
 - Miscellaneous precision apparel and fabric workers (6859, part 7752)
- 99. Precision food production occupations
 - Butchers and meat cutters (6871)
 - Bakers (6872)
 - Food batchmakers (6873, 6879)
- 100. Precision inspectors, testers, and related workers
 - Inspectors, testers, and graders, (6881, 828)
 - Adjusters and calibrators (6882)
- 101. Plant and system operators
 - Water and sewage treatment plant operators (691)
 - Power plant operators (Part 693)
 - Stationary engineers (Part 693, 7668)
 - Miscellaneous plant and system operators (692, 694, 695, 696)
- 102. Other precision production occupations
 - Patternmakers and model makers, wood (6831)
 - Cabinet makers and bench carpenters (6832)
 - Furniture and wood finishers (6835)
 - Miscellaneous precision woodworkers (6839)
 - Hand molders and shapers, except jewelers (6861)
 - Patternmakers, lay-out workers, and cutters (6862)
 - Optical goods workers (6864, part 7477, part 7677)
 - Dental laboratory and medical appliance technicians (6865)
 - Bookbinders (6844)
 - Electrical and electronic equipment assemblers (6867)
 - Miscellaneous precision workers, n.e.c. (6869)

MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS

- 103. Metalworking and plastic working machine operators
 - Lathe and turning machine set-up operators (7312)
 - Lathe and turning machine operators (7512)
 - Milling and planing machine operators (7313, 7513)
 - Punching and stamping press machine operators (7314, 7317, 7514, 7517)
 - Rolling machine operators (7316, 7516)
 - Drilling and boring machine operators (7318, 7518)
 - Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
 - Forging machine operators (7319, 7519)
 - Numerical control machine operators (7326)
 - Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
- 104. Fabricating machine operators, n.e.c. (7339, 7539)
- 105. Metal and plastic processing and woodworking machine operators
 - Molding and casting machine operators (7315, 7342, 7515, 7542)
 - Metal plating machine operators (7343, 7543)
 - Heat treating equipment operators (7344, 7544)
 - Miscellaneous metal and plastic processing machine operators (7349, 7549)
 - Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
 - Sawing machine operators (7433, 7633)
 - Shaping and joining machine operators (7435, 7635)
 - Nailing and tacking machine operators (7636)
 - Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
- 106. Printing machine operators
 - Printing machine operators (7443, 7643)
 - Photoengravers and lithographers (6842, 7444, 7644)
 - Typesetters and compositors (6841, 7642)
 - Miscellaneous printing machine operators (6849, 7449, 7649)

MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS—CON.

- 107. Textile machine operators
 - Winding and twisting machine operators (7451, 7651)
 - Knitting, looping, taping, and weaving machine operators (7452, 7652)
 - Textile cutting machine operators (7654)
 - Miscellaneous textile machine operators (7459, 7659)
- 108. Textile sewing machine operators (7655)
- 109. Laundering and dry cleaning machine operators (6855, 7658)
- 110. Packaging and filling machine operators (7462, 7662)
- 111. Furnace, kiln, and oven operators, except food (7675)
- 112. Other specified machine operators
 - Shoe machine operators (7656)
 - Pressing machine operators (7657)
 - Cementing and gluing machine operators (7661)
 - Extruding and forming machine operators (7463, 7663)
 - Mixing and blending machine operators (7664)
 - Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
 - Compressing and compacting machine operators (7467, 7667)
 - Painting and paint spraying machine operators (7669)
 - Roasting and baking machine operators, food (7472, 7672)
 - Washing, cleaning, and pickling machine operators (7673)
 - Folding machine operators (7474, 7674)
 - Furnace, kiln, and oven operators, except food (7675)
 - Crushing and grinding machine operators (Part 7477, part 7677)
 - Slicing and cutting machine operators (7478, 7678)
 - Motion picture projectionists (Part 7479)
 - Photographic process machine operators (6863, 6868, 7671)
- 113. Miscellaneous and not specified machine operators
 - Miscellaneous machine operators, n.e.c. (Part 7479, 7665, 7679)
 - Machine operators, not specified
- 114. Welders and cutters (7332, 7532, 7714)
- 115. Solderers and brazers (7333, 7533, 7717)
- 116. Assemblers (772, 774)
- 117. Hand-working occupations
 - Hand cutting and trimming occupations (7753)
 - Hand molding, casting, and forming occupations (7754, 7755)
 - Hand painting, coating, and decorating occupations (7756)
 - Hand engraving and printing occupations (7757)
 - Hand grinding and polishing occupations (7758)
 - Miscellaneous hand working occupations (7759)
- 118. Graders and sorters, except agricultural (785)
- 119. Other production inspectors, samplers, and weighers
 - Production inspectors, checkers, and examiners (782, 787)
 - Production testers (783)
 - Production samplers and weighers (784)

TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS

- 120. Truck drivers
 - Truck drivers, heavy (8212, 8213)
 - Truck drivers, light (8214)
- 121. Driver-sales workers (8218)
- 122. Other motor vehicle operators
 - Supervisors, motor vehicle operators (8111)
 - Bus drivers (8215)
 - Taxicab drivers and chauffeurs (8216)
 - Parking lot attendants (874)
 - Motor transportation occupations, n.e.c. (8219)
- 123. Rail and water transportation occupations
 - Railroad conductors and yardmasters (8113)
 - Locomotive operating occupations (8232)
 - Railroad brake, signal, and switch operators (8233)
 - Rail vehicle operators, n.e.c. (8239)
 - Ship captains and mates, except fishing boats (Part 8241, 8242)
 - Sailors and deckhands (8243)
 - Marine engineers (8244)
 - Bridge, lock, and lighthouse tenders (8245)
- 124. Supervisors, material moving equipment operators (812)

Appendix A.—Definitions and Explanations of Subject Characteristics

TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS—CON.

- 125. Crane, hoist, and winch operators
 - Hoist and winch operators (8314)
 - Crane and tower operators (8315)
- 126. Excavating, grading, and dozer machine operators
 - Excavating and loading machine operators (8316)
 - Grader, dozer, and scraper operators (8317)
- 127. Other material moving equipment operators
 - Operating engineers (8312)
 - Longshore equipment operators (8313)
 - Industrial truck and tractor equipment operators (8318)
 - Miscellaneous material moving equipment operators (8319)

HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS

- 128. Supervisors; handlers, equipment cleaners, and laborers, n.e.c. (85)
- 129. Helpers, craft and production
 - Helpers, mechanics and repairers (863)

HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS—CON.

- Helpers, craft and production—Con.
 - Helpers, construction trades (8641-8645, 8648)
 - Helpers, surveyor (8646)
 - Helpers, extractive occupations (865)
 - Production helpers (861, 862)
- 130. Construction laborers (871)
- 131. Freight, stock, and material handlers
 - Garbage collectors (8722)
 - Stevedores (8723)
 - Stock handlers and baggers (8724)
 - Machine feeders and offbearers (8725)
 - Freight, stock, and material handlers, n.e.c. (8726)
- 132. Garage and service station occupations, and equipment cleaners
 - Garage and service station related occupations (873)
 - Vehicle washers and equipment cleaners (875)
- 133. Hand packers and packagers (8761)
- 134. Laborers, except construction (8769)

List B. INTERMEDIATE INDUSTRIAL CLASSIFICATION (51 ITEMS) WITH COMPONENT DETAILED CATEGORIES

This list presents the relationship between the detailed industry classification used in table 4 and the intermediate industry classification used in tables 1-3. The industry groups marked with an asterisk (*) are not shown in the tables using the intermediate classification but can be derived by subtraction. Numbers in parentheses following the industry categories are the SIC definitions.

AGRICULTURE, FORESTRY, AND FISHERIES

- 1. Agriculture, forestry, and fisheries
 - Agricultural production, crops (01)
 - Agricultural production, livestock (02)
 - Agricultural services, except horticultural (07, except 078)
 - Horticultural services (078)
 - Forestry (08)
 - Fishing, hunting, and trapping (09)

MINING

- 2. Mining
 - Metal mining (10)
 - Coal mining (11, 12)
 - Crude petroleum and natural gas extraction (13)
 - Nonmetallic mining and quarrying, except fuel (14)

CONSTRUCTION

- 3. Construction (15, 16, 17)

MANUFACTURING

- 4. Food and kindred products
 - Meat products (201)
 - Dairy products (202)
 - Canned and preserved fruits and vegetables (203)
 - Grain mill products (204)
 - Bakery products (205)
 - Sugar and confectionery products (206)
 - Beverage industries (208)
 - Miscellaneous food preparations and kindred products (207, 209)
 - Not specified food industries
- 5. Textile mill products
 - Knitting mills (225)
 - Dyeing and finishing textiles, except wool and knit goods (226)

MANUFACTURING—CON.

- Textile mill products—Con.
 - Floor coverings, except hard surface (227)
 - Yarn, thread, and fabric mills (221-224, 228)
 - Miscellaneous textile mill products (229)
- 6. Apparel and other finished textile products
 - Apparel and accessories, except knit (231-238)
 - Miscellaneous fabricated textile products (239)
- 7. Paper and allied products
 - Pulp, paper, and paperboard mills (261-263, 266)
 - Miscellaneous paper and pulp products (264)
 - Paperboard containers and boxes (265)
- 8. Printing, publishing, and allied industries
 - Newspaper publishing and printing (271)
 - Printing, publishing, and allied industries, except newspapers (272-279)
- 9. Chemicals and allied products
 - Plastics, synthetics, and resins (282)
 - Drugs (283)
 - Soaps and cosmetics (284)
 - Paints, varnishes, and related products (285)
 - Agricultural chemicals (287)
 - Industrial and miscellaneous chemicals (281, 286, 289)
- 10. Rubber and miscellaneous plastics products
 - Tires and inner tubes (301)
 - Other rubber products, and plastics footwear and belting (302-304, 306)
 - Miscellaneous plastics products (307)
- 11. Other nondurable goods
 - Tobacco manufactures (21)
 - Petroleum refining (291)
 - Miscellaneous petroleum and coal products (295, 299)
 - Leather tanning and finishing (311)
 - Footwear, except rubber and plastic (313, 314)
 - Leather products, except footwear (315-317, 319)
- 12. Lumber and wood products, except furniture
 - Logging (241)

Appendix A.—Definitions and Explanations of Subject Characteristics

MANUFACTURING—CON.

- Lumber and wood products, except furniture—Con.
 - Sawmills, planing mills, and millwork (242, 243)
 - Wood buildings and mobile homes (245)
 - Miscellaneous wood products (244, 249)
- 13. Furniture and fixtures (25)
- 14. Stone, clay, glass, and concrete products
 - Glass and glass products (321-323)
 - Cement, concrete, gypsum, and plaster products (324, 327)
 - Structural clay products (325)
 - Pottery and related products (326)
 - Miscellaneous nonmetallic mineral and stone products (328, 329)
- 15. Primary iron and steel industries
 - Blast furnaces, steelworks, rolling and finishing mills (331)
 - Iron and steel foundries (332)
- 16. Primary nonferrous industries
 - Primary aluminum industries (3334, part 334, 3353-3355, 3361)
 - Other primary metal industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, 339)
- 17. Fabricated metal industries
 - Cutlery, handtools, and other hardware (342)
 - Fabricated structural metal products (344)
 - Screw machine products (345)
 - Metal forgings and stampings (346)
 - Ordnance (348)
 - Miscellaneous fabricated metal products (341, 343, 347, 349)
 - Not specified metal industries
- 18. Machinery, except electrical
 - Engines and turbines (351)
 - Farm machinery and equipment (352)
 - Construction and material handling machines (353)
 - Metalworking machinery (354)
 - Office and accounting machines (357, except 3573)
 - Electronic computing equipment (3573)
 - Machinery, except electrical, n.e.c. (355, 356, 358, 359)
 - Not specified machinery
- 19. Electrical machinery, equipment, and supplies
 - Household appliances (363)
 - Radio, T.V., and communication equipment (365, 366)
 - Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
 - Not specified electrical machinery, equipment, and supplies
- 20. Motor vehicles and motor vehicle equipment (371)
- 21. Aircraft, space vehicles, and parts (372, 376)
- 22. Other transportation equipment
 - Ship and boat building and repairing (373)
 - Railroad locomotives and equipment (374)
 - Cycles and miscellaneous transportation equipment (375, 379)
- 23. Other durable goods
 - Scientific and controlling instruments (381, 382)
 - Optical and health services supplies (383, 384, 385)
 - Photographic equipment and supplies (386)
 - Watches, clocks, and clockwork operated devices (387)
 - Not specified professional equipment
 - Toys, amusement, and sporting goods (394)
 - Miscellaneous manufacturing industries (39 except 394)
 - Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

- 4. Railroads (40)
- 5. Trucking service and warehousing
 - Trucking service (421, 423)
 - Warehousing and storage (422)
- 6. Other transportation
 - Bus service and urban transit (41, except 412)
 - Taxicab service (412)
 - U.S. Postal Service (43)
 - Water transportation (44)
 - Air transportation (45)
 - Pipe lines, except natural gas (46)

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—CON.

- Other transportation—Con.
 - Services incidental to transportation (47)
- 27. Communications
 - Radio and television broadcasting (483)
 - Telephone (wire and radio) (481)
 - Telegraph and miscellaneous communication services (482, (489)
- 28. Utilities and sanitary services
 - Electric light and power (491)
 - Gas and steam supply systems (492, 496)
 - Electric and gas, and other combinations (493)
 - Water supply and irrigation (494, 497)
 - Sanitary services (495)
 - Not specified utilities

WHOLESALE TRADE

- 29. Wholesale trade
- 30. Groceries and farm products
 - Groceries and related products (514)
 - Farm products—raw materials (515)
- * Other wholesale trade
 - Motor vehicles and equipment (501)
 - Furniture and home furnishings (502)
 - Lumber and construction materials (503)
 - Sporting goods, toys, and hobby goods (504)
 - Metals and minerals, except petroleum (505)
 - Electrical goods (506)
 - Hardware, plumbing and heating supplies (507)
 - Not specified electrical and hardware products
 - Machinery, equipment, and supplies (508)
 - Scrap and waste materials (5093)
 - Miscellaneous wholesale, durable goods (5094, 5099)
 - Paper and paper products (511)
 - Drugs, chemicals, and allied products (512, 516)
 - Apparel, fabrics, and notions (513)
 - Petroleum products (517)
 - Alcoholic beverages (518)
 - Farm supplies (5191)
 - Miscellaneous wholesale, nondurable goods (5194, 5198, 5199)
 - Not specified wholesale trade

RETAIL TRADE

- 31. General merchandise stores
 - Department stores (531)
 - Variety stores (533)
 - Miscellaneous general merchandise stores (539)
- 32. Food stores
 - Grocery stores (541)
 - Dairy products stores (545)
 - Retail bakeries (546)
 - Food stores, n.e.c. (542, 543, 544, 549)
- 33. Automotive dealers and gasoline stations
 - Motor vehicle dealers (551, 552)
 - Auto and home supply stores (553)
 - Gasoline service stations (554)
 - Miscellaneous vehicle dealers (555, 556, 557, 559)
- 34. Apparel and accessory stores
 - Apparel and accessory stores, except shoe (56 except 566)
 - Shoe stores (566)
- 35. Eating and drinking places (58)
- 36. Other retail trade
 - Lumber and building material retailing (521, 523)
 - Hardware stores (525)
 - Furniture and home furnishings stores (571)
 - Household appliances, TV, and radio stores (572, 573)
 - Drug stores (591)
 - Liquor stores (592)
 - Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)

Appendix A.—Definitions and Explanations of Subject Characteristics

RETAIL TRADE—CON.

- Other retail trade—Con.
 - Book and stationery stores (5942, 5943)
 - Jewelry stores (5944)
 - Sewing, needlework, and piece goods stores (5949)
 - Mail order houses (5961)
 - Vending machine operators (5962)
 - Direct selling establishments (5963)
 - Fuel and ice dealers (598)
 - Retail florists (5992)
 - Miscellaneous retail stores (593, 5947, 5948, 5993, 5994, 5999)
 - Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

- 37. Banking and credit agencies
 - Banking (60)
 - Savings and loan associations (612)
 - Credit agencies, n.e.c. (61, except 612)
- 38. Insurance (63, 64)
- 39. Other finance and real estate
 - Security, commodity brokerage, and investment companies (62, 67)
 - Real estate, including real estate-insurance-law offices (65, 66)

BUSINESS AND REPAIR SERVICES

- 40. Business services
 - Advertising (731)
 - Services to dwellings and other buildings (734)
 - Commercial research, development, and testing labs (7391, 7397)
 - Personnel supply services (736)
 - Business management and consulting services (7392)
 - Computer and data processing services (737)
 - Detective and protective services (7393)
 - Business services, n.e.c. (732, 733, 735, 7394-7396, 7399)
- 41. Automotive repair and services
 - Automotive services, except repair (751, 752, 754)
 - Automotive repair shops (753)
- 42. Other repair services
 - Electrical repair shops (762, 7694)
 - Miscellaneous repair services (763, 764, 7692, 7699)

PERSONAL SERVICES

- 43. Hotels and lodging places
 - Hotels and motels (701)
 - Lodging places, except hotels and motels (702, 703, 704)
- 44. Other personal services
 - Private households (88)
 - Laundry, cleaning, and garment services (721)
 - Beauty shops (723)
 - Barber shops (724)
 - Funeral service and crematories (726)
 - Shoe repair shops (725)

PERSONAL SERVICES—CON.

- Other personal services—Con.
 - Dressmaking shops (Part 729)
 - Miscellaneous personal services (722, part 729)

ENTERTAINMENT AND RECREATION SERVICES

- 45. Entertainment and recreation services
 - Theaters and motion pictures (78, 792)
 - Bowling alleys, billiard and pool parlors (793)
 - Miscellaneous entertainment and recreation services (791, 794, 799)

PROFESSIONAL AND RELATED SERVICES

- 46. Hospitals (806)
- 47. Health services, except hospitals
 - Offices of physicians (801, 803)
 - Offices of dentists (802)
 - Offices of chiropractors (8041)
 - Offices of optometrists (8042)
 - Offices of health practitioners, n.e.c. (8049)
 - Nursing and personal care facilities (805)
 - Health services, n.e.c. (807, 808, 809)
- 48. Educational services
 - Elementary and secondary schools (821)
 - Colleges and universities (822)
 - Business, trade, and vocational schools (824)
 - Libraries (823)
 - Educational services, n.e.c. (829)
- 49. Social services, religious and membership organizations
 - Job training and vocational rehabilitation services (833)
 - Child day care services (835)
 - Residential care facilities, without nursing (836)
 - Social services, n.e.c. (832, 839)
 - Religious organizations (866)
 - Membership organizations (861-865, 869)
- 50. Other professional and related services
 - Legal services (81)
 - Museums, art galleries, and zoos (84)
 - Engineering, architectural, and surveying services (891)
 - Accounting, auditing, and bookkeeping services (893)
 - Noncommercial educational and scientific research (892)
 - Miscellaneous professional and related services (899)

PUBLIC ADMINISTRATION

- 51. Public administration
 - Executive and legislative offices (911-913)
 - General government, n.e.c. (919)
 - Justice, public order, and safety (92)
 - Public finance, taxation, and monetary policy (93)
 - Administration of human resources programs (94)
 - Administration of environmental quality and housing programs (95)
 - Administration of economic programs (96)
 - National security and international affairs (97)

Appendix B.—General Enumeration and Processing Procedures

USUAL PLACE OF RESIDENCE. . .	B-1
Armed Forces.	B-1
Crews of Merchant Vessels	B-1
Persons Away at School	B-1
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USUAL PLACE OF RESIDENCE

In accordance with census practice dating back to the first U.S. census in 1790, each person enumerated in the 1980 census was counted as an inhabitant of his or her "usual place of residence," which is generally construed to mean the place where the person lives and sleeps most of the time. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of residence rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1). Persons without a usual place of residence, however, were counted where they happened to be staying.

Armed Forces

Members of the Armed Forces living on a military installation were counted, as in every previous census, as residents of the area in which the installation was located; members of the Armed Forces not living on a military installation were counted as residents of the area in which

they were living. Family members of Armed Forces personnel were counted where they were living on Census Day (i.e., with the Armed Forces personnel or at another location, as the case might be).

Each Navy ship was attributed to the municipality that the Department of the Navy designated as its homeport, except for those ships which were deployed to the 6th or 7th Fleet on Census Day. As was done in the 1970 census, naval personnel aboard deployed ships were defined in the 1980 census as part of the overseas population, because deployment to the 6th or 7th Fleet implies a long-term overseas assignment.

In homeports with fewer than 1,000 naval personnel assigned to ships, the crews were counted aboard the ship. In homeports with 1,000 or more naval personnel assigned to ships, the naval personnel who indicated that they had a usual residence within 50 miles of the homeport of their ship were attributed to that residence.

When a homeport designated by the Navy was contained in more than one municipality, ships homeported and berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Other ships attributed by the Navy to that homeport, but which were not physically present and not deployed to the 6th or 7th Fleet on Census Day, were allocated to the municipality named on the Navy's homeport list.

Crews of Merchant Vessels

Shipboard Census Reports were mailed to crews of merchant vessels through the ships' respective owner-operators based on lists of U.S. flag merchant vessels obtained from the Maritime Administration, U.S. Department of Commerce.

If the ship was berthed in a U.S. port on Census Day, the crew was enumerated as of that port. If the ship was

not berthed in a U.S. port but was inside the territorial waters of the United States, the crew was enumerated as of (a) the port of destination if that port was inside the United States or (b) the homeport of the ship if its port of destination was outside the United States. Crews of U.S. flag vessels which were outside U.S. territorial waters on Census Day and crews of vessels flying a foreign flag were not enumerated in the 1980 census.

Persons Away at School

College students were counted as residents of the area in which they were living while attending college, as they have been since 1950. However, children in boarding schools below the college level were counted at their parental home.

Persons in Institutions

Inmates of institutions, who ordinarily live there for considerable periods of time, were counted as residents of the area where the institution was located. Patients in short-term wards (general, maternity, etc.) of hospitals were counted at their usual place of residence; if they had no usual place of residence, they were counted at the hospital.

Persons Away From Their Residence on Census Day

Persons in hotels, motels, etc., on the night of March 31, 1980, were requested to fill out a census form

their census homes if they were not at home to a similar apartment or house in the States during the temporary stay. Information on the usual place of residence from other sources may be used if the entire household

away during the whole period of the enumeration, information on that household was obtained from neighbors. A matching process was used to eliminate duplicate reports for persons who reported for themselves while away from their usual residence and who were also reported at this usual residence by someone else.

A special enumeration was conducted in such facilities as missions, flophouses, jails, detention centers, etc., on the night of April 6, 1980, and persons enumerated therein were counted as residents of the area in which the establishment was located.

Americans Abroad

Americans who were overseas for an extended period (in the Armed Forces, working at civilian jobs, studying in foreign universities, etc.) were not included in the population of any State or the District of Columbia. On the other hand, Americans who were temporarily abroad on vacations, business trips, and the like were counted at their usual residence in the United States.

Citizens of Foreign Countries

Citizens of foreign countries having their usual residence (legally or illegally) in the United States on Census Day, including those working here (but not living at an embassy, ministry, legation, chancellery, or consulate) and those attending school (but not living at an embassy, etc.), were included in the enumeration, as were members of their families living with them. However, citizens of foreign countries temporarily visiting or traveling in the United States or living on the premises of an embassy, etc., were not enumerated in the 1980 census.

DATA COLLECTION PROCEDURES

The 1980 census was conducted primarily through self-enumeration. A census questionnaire was delivered by postal carriers to every housing unit several days before Census Day, April 1, 1980. This questionnaire included explanatory information and was accompanied by an instruction guide. Spanish-language versions of the questionnaire and instruction guide were available on request. The questionnaire

was also available in narrative translation in 32 languages.

In most areas of the United States, altogether containing about 95 percent of the population, the householder was requested to fill out and mail back the questionnaire on Census Day. Approximately 83 percent of these households returned their forms by mail. Households that did not mail back a form and vacant housing units were visited by an enumerator. Households that returned a form with incomplete or inconsistent information that exceeded a specified tolerance were contacted by telephone or, if necessary, by a personal visit, to obtain the missing information.

In the remaining (mostly sparsely settled) area of the country, which contained about 5 percent of the population, the householder was requested to fill out the questionnaire and hold it until visited by an enumerator. Incomplete and unfilled forms were completed by interview during the enumerator's visit. Vacant units were enumerated by a personal visit and observation.

Each housing unit in the country received one of two versions of the census questionnaire: a short-form questionnaire containing a limited number of basic population and housing questions or a long-form questionnaire containing these basic questions as well as a number of additional questions. A sampling procedure was used to determine those units which were to receive the long-form questionnaire. Two sampling rates were employed. For most of the country, one in every six housing units (about 17 percent) received the long form or sample questionnaire; in counties, incorporated places and minor civil divisions estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire to enhance the reliability of sample data in small areas.

Special questionnaires were used for the enumeration of persons in group quarters such as colleges and universities, hospitals, prisons, military installations, and ships. These forms contained the population questions but did not include any housing questions. In addition to the regular census questionnaires, the Supplementary Questionnaire for American Indians was used in conjunction with the short form on Federal and State reservations and in the historic areas of

Oklahoma (excluding urbanized areas) for households that had at least one American Indian, Eskimo, or Aleut household member.

PROCESSING PROCEDURES

The 1980 census questionnaires were processed in a manner similar to that for the 1970 and 1960 censuses. They were designed to be processed electronically by the Film Optical Sensing Device for Input to Computer (FOSDIC). For most items on the questionnaire, the information supplied by the respondent or obtained by the enumerator was indicated by marking the answers in predesignated positions that would be "read" by FOSDIC from a microfilm copy of the questionnaire and transferred onto computer tape with no intervening manual processing. The computer tape did not include information on individual names and addresses.

The data processing was performed in two stages. For 100-percent data, all short forms, and pages 2 and 3 of the long forms (which have the same questions as the short form), were microfilmed, "read" by FOSDIC, and transferred onto computer tape for tabulation. For the sample data, the long form (or sample) questionnaires were processed through manual coding operations since some questions required the respondent to provide write-in entries which could not be read by FOSDIC. Census Bureau coders assigned alphabetical or numerical codes to the write-in answers in FOSDIC readable code boxes on each questionnaire. After all coding was completed, the long forms were microfilmed, and the film was "read" by FOSDIC and transferred onto computer tape.

The tape containing the information from the questionnaires was processed on the Census Bureau's computers through a number of editing and tabulation steps. Among the products of this operation were computer tapes from which the tables in this report (and most others in the 1980 census publications) were prepared on phototype-setting equipment at the Government Printing Office.

A more detailed description of the data collection and processing procedures can be obtained from the 1980 Census of Population and Housing, *Users' Guide*, PHC80-R1.

Appendix C.—Accuracy of the Data

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INTRODUCTION

The data presented in this publication are based on the 1980 census sample. The data are estimates of the actual figures that would have resulted from a complete count. Estimates can be expected to vary from the complete count result because they are subject to two basic types of error—sampling and nonsampling. The sampling error in the data arises from the selection of persons and housing units to be included in the sample. The nonsampling error, which affects both sample and complete count data, is the result of all other errors that may occur during the collection and processing phases of the census. A more detailed discussion of both sampling and nonsampling error and a description of the estimation procedure are given in this appendix.

SAMPLE DESIGN

While every person and housing unit in the 1980 census was enumerated on a questionnaire that requested certain basic demographic information (e.g., age, race, relationship), a sample of persons and

housing units was enumerated on a questionnaire that requested additional information. The basic sampling unit for the 1980 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. Two sampling rates were employed. In counties, incorporated places, and minor civil divisions estimated to have fewer than 2,500 persons (based on pre-census estimates), one-half of all housing units and persons in group quarters were to be included in the sample. In all other areas one-sixth of the housing units or persons in group quarters were sampled. The purpose of this scheme was to provide relatively more reliable estimates for small areas. When both sampling rates were taken into account across the Nation, approximately 19 percent of the Nation's housing units were included in the census sample.

The sample designation method depended on the data collection procedures. In areas containing about 95 percent of the population, the census was taken by the mailout/mailback procedure. For these areas, the Bureau of the Census either purchased a commercial mailing list which was updated and corrected by Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized, and every sixth unit (for 1-in-6 areas) or every second unit (for 1-in-2 areas) was designated as a sample unit by computer. Both of these lists were also corrected by the Post Office.

In non-mailout/mailback areas, a blank listing book with designated sample lines (every sixth or every second line) was prepared for the enumerator. Beginning about Census Day, the enumerator systematically canvassed the area and listed all housing units in the listing book in the order they were encountered. Completed questionnaires, including sample information for any housing unit which was listed on a designated sample line, were collected.

In both types of data collection pro-

cedure areas, an enumerator was responsible for a small geographic area known as an enumeration district, or ED. An ED usually represented the average workload area for one enumerator.

In order to reduce the cost of processing, a scheme was designed, while the sample questionnaires were being processed, to select a subsample of questionnaires on which the place of work and migration data items would be coded. The sample questionnaires were processed by work units consisting of 1980 census ED's. In work units (ED's) where the place of work and migration data items had not yet been coded, every other sample questionnaire within the work unit was selected for these coding operations. In work units where the place of work and migration data items already had been coded, all sample questionnaires were included in the tabulation.

ERRORS IN THE DATA

Since the data in this publication are based on a sample, they may differ somewhat from complete count figures that would have been obtained if all persons within housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a survey estimate is a measure of the variation among the estimates from the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. The method of calculating standard errors and confidence intervals for the data in this report is given below.

In addition to the variability which

Medians—For the standard error of a median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as $N/2$). Treat $N/2$ as if it were an ordinary estimate and obtain its standard error as instructed above using tables A and C. Compute the desired confidence interval about $N/2$. Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or

first exceeds the lower limit of the confidence interval about $N/2$. By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, cumulate frequencies starting from the highest value of the characteristic until the sum equals or exceeds the count in excess of the upper limit of the interval about $N/2$. Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

Confidence Intervals

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain the average value of the estimated characteristic that results over all possible samples with a known probability. For example, if all possible samples that could result under the 1980 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

- (1) Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples; and
- (2) Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability or confi-

dence that the calculated confidence interval includes the average estimate from all possible samples (approximately the complete-count value).

Confidence intervals may also be constructed for the difference between two sample figures. This is done by computing the difference between these figures, obtaining the standard error of the difference (using the formula given earlier), and then forming a confidence interval for this estimated difference as above. One can then say with specified confidence that this interval includes the difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given in this report do not include all portions of the variability due to nonsampling error that may be present in the data. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68 or 95 percent). Thus, some care must be exercised in the interpretation of the data in this publication based on the estimated standard errors.

For more information on confidence intervals and nonsampling error, see any standard sampling theory text.

Use of Tables to Compute Standard Errors

See appendix D of PHC80-3, *Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas*, or PC80-1-C, *General Social and Economic Characteristics*, for examples showing the computation of standard errors and formation of confidence intervals.

ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure which resulted in the assignment of a weight to each sample person or housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units in the tabulation area which possessed the characteristic. Estimates of family or household characteristics were

based on the weights assigned to the family members designated as householders. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value five, all characteristics of that person or housing unit would be tabulated with a weight of five. The estimation procedure, however, did assign weights which vary from person to person or housing unit to housing unit.

The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas were generally formed of adjoining portions of geography, which closely agreed with census tabulation areas within counties. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas were never allowed to cross state or county boundaries. In small counties with a sample count of less than 400 persons, the minimum required sample condition was relaxed to permit the entire county to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in three stages. For persons the first stage employed 17 household-type groups. The second stage used two groups: householders and nonhouseholders. The third stage could potentially use 160 age-sex-race-Spanish origin groups. The stages were as follows:

PERSONS

Stage I—Type of Household

Group	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
6-10	2 persons in housing unit through 8 or more persons in housing unit

Appendix C.—Accuracy of the Data

<i>Persons in All Other Housing Units</i>	
11	1 person in housing unit
12-16	2 persons in housing unit through 8 or more persons in housing unit
17	<i>Persons in Group Quarters</i>
Stage II—Householder/Nonhouseholder	
<i>Group</i>	
1	Householder
2	Nonhouseholder (including persons in group quarters)
Stage III—Age/Sex/Race/Spanish Origin	
<i>Group</i>	<i>White Race</i>
	<i>Persons of Spanish Origin</i>
	<i>Male</i>
1	0 to 4 years of age
2	5 to 14 years of age
3	15 to 19 years of age
4	20 to 24 years of age
5	25 to 34 years of age
6	35 to 44 years of age
7	45 to 64 years of age
8	65 years of age or older
	<i>Female</i>
9-16	Same age categories as groups 1 to 8
	<i>Persons Not of Spanish Origin</i>
17-32	Same age and sex categories as groups 1 to 16
	<i>Black Race</i>
33-64	Same age-sex-Spanish origin categories as groups 1 to 32
	<i>Asian, Pacific Islander Race</i>
65-96	Same age-sex-Spanish origin categories as groups 1 to 32
	<i>American Indian, Eskimo, or Aleut Race</i>

Within a weighting area, the first step in the estimation procedure was to assign each sample person record an initial weight. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure was to combine, if necessary, the groups in each of the three stages prior to the repeated ratio estimation in order to increase the reliability of the ratio estimation procedure. For the first and second stages, any group that did not meet certain criteria concerning the unweighted sample count or the ratio of the complete count to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern. At the third stage, the "other" race category was collapsed with the "White" race category before the above collapsing criteria as well as an additional criterion concerning the number of complete count persons in each category were applied.

As the final step, the initial weights underwent three stages of ratio adjustment which used the groups listed above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight. In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Finally, the stage II weights were adjusted at stage III by the ratio of the complete census count to the sum of the stage II weights for sample persons in each stage III group. The three stages of adjustment were performed twice (two iterations) in the order given above. The weights obtained from the second iteration for stage III were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight for the persons in a particular group was 7.2, then one-fifth of the sample persons in this group were randomly assigned a weight of 8 and the remaining four-fifths received a weight of 7.

Separate weights were derived for tabulating the place of work and migration data items. The weights were obtained by adjusting the weight derived above for persons on questionnaires selected for coding by the reciprocal of the ED coding rate and a ratio adjustment to ensure that the sum of the weights and the complete count total population figure would agree.

The ratio estimation procedure for housing units was essentially the same as that for persons. The major difference was that the occupied housing unit ratio estimation procedure was done in two stages and the vacant housing unit ratio estimation procedure was done in one stage. The first stage for occupied housing units employed 16 household-type categories and the second stage could potentially use 190 tenure-race-Spanish origin-value/rent groups. For vacant housing units, three groups were utilized. The stages for the ratio estimation for housing units were as follows:

OCCUPIED HOUSING UNITS

Stage I—Type of Household

<i>Group</i>	<i>Housing Units With a Family With Own Children Under 18</i>
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	<i>Housing Units With a Family Without Own Children Under 18</i>
6-10	2 persons in housing unit through 8 or more persons in housing unit
	<i>All Other Housing Units</i>
11	1 person in housing unit
12-16	2 persons in housing unit through 8 or more persons in housing unit

Stage II—Tenure/Race and Origin of Householder/Value or Rent

<i>Group</i>	<i>Owner</i>
	<i>White Race (householder)</i>
	<i>Persons of Spanish Origin (householder)</i>
	<i>Value of House</i>
1	\$0 to \$9,999

2	\$10,000 to \$19,999	<i>American Indian, Eskimo</i>
3	\$20,000 to \$24,999	<i>or Aleut Race</i>
4	\$25,000 to \$49,999	147-168 Same rent—Spanish origin
5	\$50,000 to \$99,999	categories as groups 81 to
6	\$100,000 to \$149,999	102
7	\$150,000+	
8	Other Owners	<i>Other Race (includes those</i>

	<i>Persons Not of Spanish</i>	169-190	Same rent—Spanish origin
	<i>Origin</i>		categories as groups 81 to
9-16	Same value categories as		102
	groups 1 to 8		

	<i>Black Race</i>
17-32	Same value—Spanish origin
	categories as groups 1 to 16

	<i>Asian, Pacific Islander Race</i>
33-48	Same value—Spanish origin
	categories as groups 1 to 16

	<i>American Indian, Eskimo</i>
	<i>or Aleut Race</i>
49-64	Same value—Spanish origin
	categories as groups 1 to 16

	<i>Other Race (includes those</i>
	<i>races not listed above)</i>
65-80	Same value—Spanish origin
	categories as groups 1 to 16

Renter*White Race**Persons of Spanish Origin*
Rent Categories

81	\$1 to \$59
82	\$60 to \$99
83	\$100 to \$149
84	\$150 to \$199
85	\$200 to \$249
86	\$250 to \$299
87	\$300 to \$399
88	\$400 to \$499
89	\$500+
90	Other Renter
91	No Cash Rent

Persons not of Spanish
origin

92-102	Same rent categories as
	groups 81 to 91

Black Race

103-124	Same rent—Spanish origin
	categories as groups 81 to
	102

Asian, Pacific Islander Race

125-146	Same rent—Spanish origin
	categories as groups 81 to
	102

VACANT HOUSING UNITS

Group	
1	<i>Vacant for Rent</i>
2	<i>Vacant for Sale</i>
3	<i>Other Vacant</i>

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial (unadjusted) weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete-count figures for the population and housing unit groups used in the estimation procedure.

CONTROL OF NONSAMPLING ERROR

As mentioned above, nonsampling error is present in both sample and complete count data. If left unchecked, this error could introduce serious bias into the data, the variability of which could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the 1980 census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. The primary sources of nonsampling error and the programs instituted for control of this error are described below. The success of these programs, however, was contingent

upon how well the instructions were actually carried out during the census. To the extent possible, both the effects of these programs and the amount of error remaining after their application will be evaluated.

Undercoverage—It is possible for some housing units or persons to be entirely missed by the census. This undercoverage of persons and housing units can introduce biases into the data. Several extensive programs were developed to focus on this important problem.

- The Postal Service reviewed mailing lists and reported housing unit addresses which were missing, undeliverable, or duplicated in the listings.
- The purchased commercial mailing list was updated and corrected by a complete field review of the list of housing units during a prec canvass operation.
- A record check was performed to reduce the undercoverage of individual persons in selected areas. Independent lists of persons, such as driver's license holders, were matched with the household rosters in the census listings. Persons not matched to the census rosters were followed up and added to the census counts if they were found to have been missed.
- A recheck of units initially classified as vacant or nonexistent was utilized to further reduce the undercoverage of persons.

More extensive discussions of programs developed to reduce undercoverage will be published as the analyses of those programs are completed.

Respondent and Enumerator Error—The person answering the questionnaire or responding to the questions posed by an enumerator could serve as a source of error by offering incorrect or incomplete information. To reduce this source of error, questions were phrased as clearly as possible based on precensus tests, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency and followed up as necessary. For example, if labor force items were incomplete for a person 15 years or older, field edit procedures would recognize the

situation and a followup attempt to obtain the information would be made.

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect sample data for households that were not designated as part of the sample. To control these problems, the work of enumerators was carefully monitored. Field staff were prepared for their tasks by using standardized training packages which included experience in using census materials. A sample of the households interviewed by enumerators for nonresponse was reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

Processing Error—The many phases of processing the census represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding, and computer operations undergo a number of quality control checks to insure their accurate application.

Nonresponse—Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any allocation procedure using respondent data may not completely reflect this difference either at the element level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was substantially reduced during the field operations, by the various edit and followup operations aimed at obtaining a response for every question. Characteristics, for the nonresponses remaining after these operations, were allocated by the computer using reported data for a person or housing unit with similar

characteristics. The allocation procedure is described in more detail below.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of statistics that describes the population as accurately and clearly as possible. To meet this objective, certain unacceptable entries were edited.

In the field, questionnaires were reviewed for omissions and certain inconsistencies by a census clerk or an enumerator and, if necessary, a followup was made to obtain missing information, or to correct inconsistencies. In addition, a hand edit of questionnaires was done in the central processing offices. As a rule, however, editing was performed by hand only when it could not be done effectively by machine.

As one of the first steps in machine editing, the configuration of marks on the questionnaire column was scanned electronically to determine whether it contained information for a person or merely spurious marks. If the column contained entries for at least two of the basic characteristics (relationship, sex, race, age, marital status, Spanish origin), the inference was made that the marks represented a person. In cases in which two or more basic characteristics were available for only a portion of the people in the unit, other information on the questionnaire provided by an enumerator was used to determine the total number of persons. Names were not used as a criterion of the presence of a person because the electronic scanning did not distinguish any entry in the name space.

After the field operations were completed, it was found (as expected) that some questionnaires were not fully filled out or that for a particular person or housing unit, certain items of information were inconsistent with other information on the questionnaire. As in previous censuses, allocations or the assignment of acceptable entries were used to replace blanks or unacceptable entries. The allocation procedure was based on using information reported for another person or housing unit with related characteristics similar to those of the person or housing unit for whom allocation was necessary. Thus, a person who was reported as a 20-year-old

son of the householder, but for whom marital status was not reported, was assigned the same marital status as that of the last son processed in the same age group by the computer. The assignment of acceptable codes in place of blanks or unacceptable entries, is designed to enhance the usefulness of the data.

The 1980 census data on the economic questions such as industry, occupation, class of worker, work experience, and income were processed using an allocation system which assigned values to missing entries in these questions, as necessary, from a single respondent with similar socioeconomic characteristics. In the 1970 census, allocation of each of the economic items was conducted separately; thus, assigned values could come from more than one respondent.

Prior to the allocation of all economic variables, the computer records were sorted according to such characteristics as sex, race and ethnicity, household relationship, years of school completed, and geographic area. The actual allocation operation was implemented in the following manner:

1. The computer stored in a series of matrices reported economic information of persons by selected characteristics such as age, disability status, presence of children, veteran's status, employment status, occupation, industry, class of worker status, work experience in 1979, level of earnings in 1979, and value of housing unit or monthly rent.
2. The stored entries in the various matrices were retained in the computer only until a succeeding person having the same set of characteristics was processed through the computer. Then the economic question responses of the succeeding person were stored in place of those previously stored.
3. When one or more of the economic questions was not reported, or the entry was unacceptable, the variables assigned to this person were those stored in the appropriate matrix for the last person who otherwise had the same set of characteristics.

The use of this single allocation system insured that the distribution of economic variable assignments would correspond closely to the entries of persons who had actually reported in the census.

Table A. Unadjusted Standard Errors for Estimated Totals

[Based on a 1-in-6 simple random sample]

Estimated Total 1/	Size of publication area 2/													
	500	1 000	2 500	5 000	10 000	25 000	50 000	100 000	250 000	500 000	1 000 000	5 000 000	10 000 000	25 000 000
50.....	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100.....	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250.....	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500.....	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1 000.....	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2 500.....	-	-	-	80	95	110	110	110	110	110	110	110	110	110
5 000.....	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10 000.....	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15 000.....	-	-	-	-	-	170	230	250	270	270	270	270	270	270
25 000.....	-	-	-	-	-	-	250	310	340	350	350	350	350	350
75 000.....	-	-	-	-	-	-	-	310	510	570	590	610	610	610
100 000.....	-	-	-	-	-	-	-	-	550	630	670	700	700	710
250 000.....	-	-	-	-	-	-	-	-	-	790	970	1 090	1 100	1 100
500 000.....	-	-	-	-	-	-	-	-	-	-	1 120	1 500	1 540	1 570
1 000 000.....	-	-	-	-	-	-	-	-	-	-	-	2 000	2 120	2 190
5 000 000.....	-	-	-	-	-	-	-	-	-	-	-	-	3 540	4 470
10 000 000.....	-	-	-	-	-	-	-	-	-	-	-	-	-	5 480

1/ For estimated totals larger than 10 000 000, the standard error is somewhat larger than the table values. The formula given below should be used to calculate the standard error.

$$Se(\hat{Y}) = \sqrt{5\hat{Y}(1-\frac{\hat{Y}}{N})}$$

N = Size of area

\hat{Y} = Estimate of characteristic total

2/ The total count of persons in the area if the estimated total is a person characteristic, or the total count of housing units in the area if the estimated total is a housing unit characteristic.

Table B. Unadjusted Standard Error in Percentage Points for Estimated Percentages

[Based on a 1-in-6 simple random sample]

Estimated Percentage	Base of percentage ^{1/}												
	500	750	1 000	1 500	2 500	5 000	7 500	10 000	25 000	50 000	100 000	250 000	500 000
2 or 98.....	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1
5 or 95.....	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1
10 or 90.....	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1
15 or 85.....	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1
20 or 80.....	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1
25 or 75.....	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1
30 or 70.....	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1
35 or 65.....	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.2
50.....	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2

1/ For a percentage and/or base of percentage not shown in the table, the formula given below may be used to calculate the standard error.

$$Se(\hat{p}) = \sqrt{\frac{5}{B} \hat{p}(100-\hat{p})}$$

B = Base of estimated percentage

\hat{p} = Estimated percentage

Table C. Standard Error Adjustment Factors

Characteristics	Adjustment Factor
INDUSTRY	
Agriculture, forestry, fisheries, and mining.....	1.2
Construction.....	1.2
Manufacturing:	
Nondurable goods.....	1.2
Durable goods.....	1.2
Transportation.....	1.1
Communications and other public utilities.....	1.1
Wholesale trade.....	1.2
Retail trade.....	1.2
Finance, insurance, and real estate.....	1.1
Business and repair services.....	1.2
Personal, entertainment, and recreation services.....	1.2
Professional and related services:	
Health services.....	1.1
Educational services.....	1.2
Other professional and related services.....	1.1
Public administration.....	1.1
OCCUPATION	
Managerial and professional specialty occupations:	
Executive, administrative, and managerial occupations.....	1.1
Professional specialty occupations.....	1.2
Technical, sales, and administrative support occupations:	
Technicians and related support occupations.....	1.1
Sales occupations.....	1.2
Administrative support occupations, including clerical....	1.1
Service occupations:	
Private household occupations.....	1.1
Protective service occupations.....	1.1
Service occupations, except protective and household.....	1.2
Farming, forestry, fishing occupations.....	1.2
Precision production, craft, and repair occupations.....	1.1
Operators, fabricators, and laborers:	
Machine operators, assemblers, and inspectors.....	1.2
Transportation and material moving occupations.....	1.1
Handlers, equipment cleaners, helpers, and laborers.....	1.2

Appendix D.—Facsimiles of Respondent Instructions and Questionnaire Pages

INSTRUCTIONS FOR QUESTIONS 1 THROUGH 10

1. List in question 1 (on page 1), the names of all the people who usually live here. Then turn to pages 2 and 3 where there are columns to list up to seven persons. In the first column print the name of one of the household members in whose name this home is owned or rented. If no household member owns or rents the living quarters, list in the first column any adult household member who is not a roomer, boarder, or paid employee. Print the names of the other household members, if any, in the columns which follow, using question 1 as a checklist.
2. Fill a circle to show how each person is related to the person in column 1.

A stepchild or legally adopted child of the person in column 1 should be marked *Son/daughter*. Foster children or wards living in the household should be marked *Roomer, boarder*.
3. Be sure to fill a circle for the sex of each person.
4. Fill the circle for the category with which the person most closely identifies. If you fill the *Indian (American)* or *Other* circle, be sure to print the name of the specific Indian tribe or specific group.
5. Enter age at last birthday in the space provided (enter "0" for babies less than one year old). Also enter month and year of birth, and fill the appropriate circles. For an illustration of how to complete question 5, see the example on pages 4 and 5. If age or month or year of birth is not known, give your best estimate.
6. If the person's only marriage was annulled, mark *Never married*.
7. A person is of Spanish/Hispanic origin or descent if the person identifies his or her ancestry with one of the listed groups, that is, Mexican, Puerto Rican, etc. Origin or descent (ancestry) may be viewed as the nationality group, the lineage, or country in which the person or the person's parents or ancestors were born.
8. Do not count enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college. A *public* school is any school or college which is controlled and supported primarily by a local, county, State, or Federal Government.
9. Fill only one circle. Mark the highest grade *ever* attended even if the person did not finish it. If the person is still in school, mark the grade in which now enrolled. Schooling received in foreign or ungraded schools should be reported as the equivalent grade or year in the regular American school system. If uncertain whether a Head Start program is for nursery school or kindergarten, mark the circle for *Nursery school*.

If the person skipped or repeated grades, mark the highest grade ever attended regardless of how long it took to get there. Persons who did not attend any college but who completed high school by finishing the 12th grade or by passing an equivalency test, such as the

General Educational Development (GED) examination, should fill the circle for the 12th grade.

10. Mark *Finished this grade (or year)* only if the person finished the *entire* grade or year marked in question 9 or if the highest grade was completed by passing a high school equivalency test.

INSTRUCTIONS FOR QUESTIONS H4 THROUGH H12

- H4. Mark only one circle. *This address* means the house or building number where your living quarters are located.
- H5. Mark the second circle only if you *must* go through someone else's living quarters to get to your own.
- H6. Consider that you have hot water even if you have it only part of the time.

Mark *Yes*, but also used by another household if someone else who lives in the same building, but is not a member of your household, also uses the facilities. Mark this circle also if the occupants of living quarters now vacant would also use the facilities in your living quarters.

- H7. Count only whole rooms used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, or unfinished attics, unfinished basements, or other space used for storage.
- H8. Mark *Owned or being* / outright or are mortgage if the living quarters are

Mark *Rented* for paid by persons v

Occupie parsonay, rent by tl or caretake.

H9.

H1

land. If this is a condominium unit, enter the estimated value for your living quarters and your share of the common elements.

- H12. Report the rent agreed to or contracted for, even if the rent is unpaid or paid by someone else.

If rent is not paid by the month, change the rent to a monthly amount; and then fill the appropriate circle in question H12.

If rent is paid:	Multiply rent by:
By the day	30
By the week	4
Every other week	2

If rent is paid:	Divide rent by:
4 times a year	3
2 times a year	6
Once a year	12

INSTRUCTIONS FOR QUESTIONS H13 THROUGH H20

- H13. Mark only one circle.

Detached means there is open space on all sides, or the house is joined only to a shed or garage. *Attached* means that the house is joined to another house or building by at least one wall which goes from ground to roof.

Mark A one-family house detached from any other house when a mobile home or trailer has had one or more rooms added or built onto it; a porch or shed is not considered a room.

Count all occupied and vacant living quarters in the house or building, but not stores or office space.

- H14a. Do not count unfinished basements or unfinished attics. However, a basement or attic with finished room(s) for living purposes should be counted as a story.

- H15a. A city or suburban lot is usually located in a city, a community, or any built-up area outside a city or community, and is not larger than the house and yard. All living quarters in apartment buildings, including garden-type apartments in the city or suburbs, are considered on a city or suburban lot.

A place is a farm, ranch, or any other property, other than a city or suburban lot, on which this residence is located.

- H16. If a well provides water for six or more houses or apartments, mark A public system. If a well provides water for five or fewer houses or apartments, mark one of the categories for individual well.

Drilled wells, or small diameter wells, are usually less than 1½ feet in diameter. Dug wells are generally hand dug and are wider.

- H17. A public sewer is operated by a government body or a private organization. A septic tank or cesspool is an underground tank or pit used for disposal of sewage.

- H19. The term person in column 1 refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house is owned or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house or apartment.

- H20. This question refers to the type of heating equipment and not to the fuel used.

An electric heat pump is sometimes known as a reverse cycle

system. It may be centrally installed with ducts to the rooms or individual heat pumps in the rooms.

A floor, wall, or pipeless furnace delivers warm air to the room right above the furnace or to the room(s) on one or both sides of the wall in which the furnace is installed and does not have ducts leading to other rooms.

Any heater that you plug into an electric outlet should be counted as a portable room heater.

INSTRUCTIONS FOR QUESTIONS H21 THROUGH H32

- H21. Gas from underground pipes is piped in from a central system such as one operated by a public utility company or a municipal government. Bottled, tank, or LP gas is stored in tanks which are refilled or exchanged when empty. Other fuel includes any fuel not separately listed, for example, purchased steam, fuel briquettes, waste material, etc.

- H22. If your living quarters are rented, enter the costs for utilities and fuels only if you pay for them in addition to the rent entered in H12. If already included in rent, fill the appropriate circle.

The amounts to be reported should be for the past 12 months, that is, for electricity and gas, the monthly average for the past 12 months; for water and other fuels, the total amount for the past 12 months.

Estimate as closely as possible when exact costs are not known.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own living quarters. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket ({) the two utilities.

- H23. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cook stove.

- H26. Answer Yes only if the telephone is located in your living quarters.

- H27. Count only equipment used to cool the air by means of a refrigeration unit.

- H28—H29. Count company cars (including police cars and taxicabs) and company trucks that are regularly kept at home and used by household members. Do not count cars or trucks permanently out of working order.

- H30—H32. Do not answer these questions if you live in a cooperative, regardless of the number of units in the structure.

- H30. Report taxes for all taxing jurisdictions even if they are included in mortgage payment, not paid yet, paid by someone else, or are delinquent.

- H31. When premiums are paid on other than a yearly basis, convert to a yearly basis and enter the yearly amount, even if no payment was made during the past 12 months.

- H32a. The word "mortgage" is used as a general term to indicate all types of loans which are secured by real estate.

- b. A second or junior mortgage is also secured by real estate but has been made by the homeowner in addition to the first mortgage.
- c. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H12 to change it to a monthly amount.

INSTRUCTIONS FOR QUESTIONS 11 THROUGH 14

11. For persons born in the United States:

Print the name of the State in which this person's mother was living when this person was born. For persons born in a hospital, do not give the State in which the hospital was located unless the hospital and the mother's home were in the same State or the location of the mother's home is not known. For example, if a person was born in a hospital in Washington, D.C., but the mother's home was in Virginia at the time of the person's birth, enter "Virginia."

For persons born outside the United States:

Print the full name of the foreign country or Puerto Rico, Guam, etc., where the person was born. Use international boundaries as now recognized by the United States. Specify whether Northern Ireland or Ireland (Eire); East or West Germany; England, Scotland or Wales (*not* Great Britain or United Kingdom). Specify the particular island in the Caribbean, *not*, for example, West Indies.

- 12. This question is only for persons born in a foreign country. Fill the **Yes**, a naturalized citizen circle only if the person has *completed* the naturalization process and is now a citizen.

If the person has entered the U.S. more than once, fill the circle for the year he or she came to stay permanently.

- 13a. Mark **No**, only speaks English if the person always speaks English *at home*; then skip to question 14.

Mark **Yes** if the person speaks a language other than English *at home*. Do *not* mark **Yes** for a language spoken only at school or if speaking ability is limited to a few expressions or slang.

- b. Print the non-English language spoken *at home*. If this person speaks two or more non-English languages *at home* and cannot determine which is spoken most often, report the first language the person learned to speak.

- c. Fill the circle that best describes the person's *ability* to speak English.

(1) The circle **Very well** should be filled for persons who have no difficulty speaking English.

(2) The circle **Well** should be filled for persons who have only minor problems which do not seriously limit their ability to speak English.

(3) The circle **Not well** should be filled for persons who are seriously limited in their ability to speak English.

(4) The circle **Not at all** should be filled for persons who do not speak English at all.

- 14. Print the ancestry group with which the person *identifies*. Ancestry (or origin or descent) may be viewed as the nationality group, the lineage, or the country in which the person or the person's parents or ancestors were born before their arrival in the United States. Persons who are of more than one origin and who cannot identify with a single group should print their multiple ancestry (for example, German-Irish).

Be specific; for example, if ancestry is "Indian," specify whether American Indian, Asian Indian, or West Indian. Distinguish Cape Verdean from Portuguese, and French Canadian from Canadian.

A religious group should not be reported as a person's ancestry.

INSTRUCTIONS FOR QUESTIONS 15 THROUGH 20

- 15a. Mark **Yes**, this house if this person lived in this same house or apartment on April 1, 1975, but moved away and came back between then and now. Mark **No**, different house if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different trailer site).

- b. If this person lived in a different house or apartment on April 1, 1975, give the location of this person's usual home at that time.

Part (1) If the person was living in the United States on April 1, 1975, print the name of the State. If the person did *not* live in the United States on April 1, 1975, print the full name of the foreign country or Puerto Rico, Guam, etc.

Part (2) If in Louisiana, print the parish name. If in Alaska, print the borough name. If in New York City — print the borough name if the county name is not known. If an independent city, leave blank.

Part (3) If in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island or Vermont, print the name of the town rather than the name of the village or city, unless the name of the town is unknown.

Part (4) Mark **Yes** if you know that the location is *now* inside the limits of a city, town, village or other incorporated place, even if it was not inside the limits on April 1, 1975.

- 17a. Mark **Yes** only if this person was on *active* duty in the U.S. Army, Navy, Air Force, Marine Corps, or Coast Guard. Mark **No** if the person was in the National Guard or the reserves.

- b. Mark **Yes** if the person was attending a college or university either full or part time and was enrolled for credit toward a degree. Mark **No** if the person was taking only non-credit courses or was attending a vocational or trade school, such as secretarial school.

- c. Mark **Yes**, full time if the person worked full time (35 hours or more per week). Mark **Yes**, part time if the person worked part time (less than 35 hours per week). Mark **No** if the person only did unpaid volunteer work, housework or yard work at own home, or if the only work done was as a resident of an institution.

- 18a. Mark **Yes** if this person was ever on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or Coast Guard, even if the time served was short. For persons in the National Guard or military reserve units, mark **Yes only** if the person was ever called to active duty; mark **No** if the only service was active duty for training.

- b. If this person served during more than one period, fill all circles which apply, even if service was for a short time.

- 19. The term "health condition" refers to any physical or mental problem which has lasted for 6 or more months. A serious problem with seeing, hearing, or speech should be considered a health condition. Pregnancy or a temporary health problem such as a broken bone that is expected to heal normally should *not* be considered a health condition.

- 20. Count all children born alive, including any who have died (even shortly after birth) or who no longer live with her.

INSTRUCTIONS FOR QUESTIONS 21 THROUGH 26

21. If the exact date of marriage is not known, give your best estimate.
- 22a. Mark **Yes** if the person worked, either full or part time, on any day of last week (Sunday through Saturday).

Count as work:

Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).

Work in own business, professional practice, or farm.

Any work in a family business or farm, paid or not.

Any part-time work including babysitting, paper routes, etc.

Active duty in Armed Forces.

Do not count as work:

Housework or yard work at home.

Unpaid volunteer work.

Work done as a resident of an institution.

- b. Give the *actual* number of hours worked at *all jobs last week*, even if that was more or fewer hours than usually worked.
23. If the person worked at several locations, but reported to the same location each day to begin work, print where he or she reported. If the person did not report to the same location each day to begin work, print the words "various locations" for 23a, and give as much information as possible in the remainder of 23 to identify the area in which he or she worked *most* last week.
- If the person's employer operates in more than one location (such as a grocery store chain or public school system), give the exact address of the location or branch where the person worked.
- If the person worked in a foreign country or Puerto Rico, Guam, etc., print the name of the country in 23e and leave the other parts of 23 blank.
- 24a. Travel time is from door to door. Include time taken waiting for public transportation, picking up passengers in carpools, etc.
- b. Mark **Worked at home** for a person who works on a farm where he or she lives, or in an office or shop in the person's home.
- c. If the person was driven to work by someone who then drove back home or to a non-work destination, mark **Drive alone**.
- d. Do not include riders who rode to school or some other non-work destination.

25. If the person works only during certain seasons or on a day-to-day basis when work is available, mark **No**.

- 26a. Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last *four* weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.

- b. Mark **No**, **already has a job** if the person was on layoff or was expecting to report to a job within 30 days.

Mark **No**, **temporarily ill** if the person expects to be able to work within 30 days.

Mark **No**, **other reasons** if the person could not have taken a job because he or she was going to school, taking care of children, etc.

INSTRUCTIONS FOR QUESTIONS 27 THROUGH 29

27. Look at the instructions for 22a to see what to count as work. Mark **Never worked** if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm *and* (3) never served in the Armed Forces.

- 28a. If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that has no company name, print the name of the individual worked for. If the person worked in his or her own business, print "self-employed."

- b. Print two or more words to tell what the business, industry, or individual employer named in 28a does. If there is more than one activity, describe only the major activity *at the place where the person works*. Enter what is made, what is sold, or what service is given.

Some examples of what is needed to make an answer acceptable are shown on the census form and here.

Unacceptable

Furniture company

Grocery store

Oil company

Ranch

Acceptable

Metal furniture manufacturing

Wholesale grocery store

Retail gas station

Cattle ranch

- c. Mark **Manufacturing** if the factory, plant, mill, etc., mostly makes things, even if it also sells them.

Mark **Wholesale trade** if the business mostly sells things to stores or other companies.

Mark **Retail trade** if the business mostly sells things (not services) to individuals.

Mark **Other** if the main activity of the employer is not making or selling things. Some examples of **Other** are farming, construction, and services such as those provided by hotels, dry cleaners, repair shops, schools, and banks.

- 29a. Print two or more words to describe the kind of work the person does. If the person is a trainee, apprentice, or helper, include that in the description.

Some examples of what is needed to make an answer acceptable are shown on the census form and here.

Unacceptable

Clerk

Helper

Mechanic

Nurse

Acceptable

Production clerk

Carpenter's helper

Auto engine mechanic

Registered nurse

- b. Print the most important things that the person does on the job. Some examples are shown on the census form.

INSTRUCTIONS FOR QUESTIONS 30 THROUGH 33

30. If the person was an employee of a *private* nonprofit organization, such as a church, fill the first circle:

Mark **Local government employee** for a teacher working in an elementary or secondary public school.

- 31a. Look at the instructions for question 22a to see what to count as work.

b. Count every week in which the person did any work at all, even for an hour.

c. If the hours worked each week varied considerably, give the best estimate of the hours usually worked most weeks.

d. Count every week in which the person did not work at all, but spent any time looking for work or on layoff from a job. *Looking for work* means trying to get a job or start a business or professional practice; *layoff* includes either temporary or indefinite layoff.

32. Fill the **Yes** or **No** circle for each part and enter the appropriate amount. If income from any source was received jointly by household members, report if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and mark **No** for the other person, unless the other person has additional income of the same type.

a. Include sick leave pay. Do not include reimbursement for business

expenses and pay "in kind," (for example, food, lodging received as payment for work performed).

b. Include net earnings (gross earnings minus business expenses) from a nonfarm business. If business lost money, write "Loss" above the amount.

c. Include net earnings (gross receipts minus operating expenses) from a farm. If farm lost money, write "Loss" above the amount.

d. Include interest and dividends credited to the person's account (for example, from savings accounts and stock shares), net royalties, and net income from rental property.

e. Include Social Security or Railroad Retirement payments to retired persons, to dependents of deceased insured workers and to disabled workers.

f. Include public assistance or welfare payments received from Federal, State, or local agencies. Do not include private welfare payments.

g. Include all other regular payments, such as government employee retirement, union or private pensions and annuities; unemployment benefits; worker's compensation; Armed Forces allotments; private welfare payments; regular contributions from persons not living in the household; etc.

Do not include lump-sum payments received from the sale of property (capital gains), insurance policies, inheritances, etc.

33. If no income was received in 1979, fill the **None** circle. If total income was a loss, write "Loss" above the amount.

Please fill out this
official Census Form
and mail it back on
Census Day,
Tuesday, April 1, 1980

1980 Census of the United States

If the address shown below has the wrong apartment identification, please write the correct apartment number or location here:					
DO	A1	A2	A4	A5	A6
L					

Your answers are confidential

By law (title 13, U.S. Code), census employees are subject to fine and/or imprisonment for any disclosure of your answers. Only after 72 years does your information become available to other government agencies or the public. The same law requires that you answer the questions to the best of your knowledge.

Para personas de habla hispana

(For Spanish-speaking persons):
SI USTED DESEA UN CUESTIONARIO DEL CENSO EN ESPAÑOL
llame a la oficina del censo. El número de teléfono se encuentra en
el encasillado de la dirección.

O, si prefiere, marque esta casilla ☐ y devuelva el cuestionario
por correo en el sobre que se le incluye.

A message from the Director,
Bureau of the Census . . .

We must, from time to time, take stock of ourselves as a
people if our Nation is to meet successfully the many national
and local challenges we face. This is the purpose of the 1980
census.

The essential need for a population census was recognized
almost 200 years ago when our Constitution was written. As
provided by article I, the first census was conducted in 1790
and one has been taken every 10 years since then.

The law under which the census is taken protects the
confidentiality of your answers. For the next 72 years — or
until April 1, 2052 — only sworn census workers have access
to the individual records, and no one else may see them.

Your answers, when combined with the answers from other
people, will provide the statistical figures needed by public
and private groups, schools, business and industry, and
Federal, State, and local governments across the country.
These figures will help all sectors of American society
understand how our population and housing are changing. In
this way, we can deal more effectively with today's problems
and work toward a better future for all of us.

The census is a vitally important national activity. Please do
your part by filling out this census form accurately and
completely. If you mail it back promptly in the enclosed
postage-paid envelope, it will save the expense and
inconvenience of a census taker having to visit you.

Thank you for your cooperation.

How to fill out your Census Form

See the filled-out example in the yellow instruction guide. This guide will help with any problems you may have.

If you need more help, call the Census Office. The telephone number of the local office is shown at the bottom of the address box on the front cover.

Use a black pencil to answer the questions. Black pencil is better to use than ballpoint or other pens.

Fill circles "O" completely, like this: ●

When you write in an answer, print or write clearly.

Make sure that answers are provided for everyone here

See page 4 of the guide if a roomer or someone else in the household does not want to give you all the information for the form.

Answer the questions on pages 1 through 5, and then starting with pages 6 and 7, fill a pair of pages for each person in the household.

Check your answers. Then write your name, the date, and telephone number on page 20.

Mail back this form on Tuesday, April 1, or as soon afterward as you can. Use the enclosed envelope; no stamp is needed.

Please start by answering Question 1 below.

Question 1

List in Question 1

- Family members living here, including babies still in the hospital.
- Relatives living here.
- Lodgers or boarders living here.
- Other persons living here.
- College students who stay here while attending college, even if their parents live elsewhere.
- Persons who usually live here but are temporarily away (including children in boarding school below the college level).
- Persons with a home elsewhere but who stay here most of the week while working.

Do Not List in Question 1

- Any person away from here in the Armed Forces.
- Any college student who stays somewhere else while attending college.
- Any person who usually stays somewhere else most of the week while working there.
- Any person away from here in an institution such as a home for the aged or mental hospital.
- Any person staying or visiting here who has a usual home elsewhere.

1. What is the name of each person who was living here on Tuesday, April 1, 1980, or who was staying or visiting here and had no other home?

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook or worksheet page.

Note

If everyone here is staying only temporarily and has a usual home elsewhere, please mark this box ☐.

Then please:

- answer the questions on pages 2 through 5 only, and
- enter the address of your usual home on page 20.

Please continue →

Page 2

ALSO ANSWER THE HOUSING QUESTIONS ON PAGE 3

Here are the QUESTIONS ↓	These are the columns for ANSWERS Please fill one column for each person listed in Question 1.	PERSON in column 1	PERSON in column 2
2. How is this person related to the person in column 1? Fill one circle. If "Other relative" of person in column 1, give exact relationship, such as mother-in-law, niece, grandson, etc.	START in this column with the household member (or one of the members) in whose name the home is owned or rented. If there is no such person, start in this column with any adult household member.	If relative of person in column 1: <input type="radio"/> Husband/wife <input type="radio"/> Father/mother <input type="radio"/> Son/daughter <input type="radio"/> Other relative <input type="radio"/> Brother/sister If not related to person in column 1: <input type="radio"/> Roomer, boarder <input type="radio"/> Other nonrelative <input type="radio"/> Partner, roommate <input type="radio"/> Paid employee	
3. Sex Fill one circle.	<input type="radio"/> Male <input checked="" type="radio"/> Female	<input type="radio"/> Male <input checked="" type="radio"/> Female	
4. Is this person — Fill one circle.	<input type="radio"/> White <input type="radio"/> Asian Indian <input type="radio"/> Black or Negro <input type="radio"/> Hawaiian <input type="radio"/> Japanese <input type="radio"/> Guamanian <input type="radio"/> Chinese <input type="radio"/> Samoan <input type="radio"/> Filipino <input type="radio"/> Eskimo <input type="radio"/> Korean <input type="radio"/> Aleut <input type="radio"/> Vietnamese <input type="radio"/> Other — Specify <input type="radio"/> Indian (Amer.) Print tribe →	<input type="radio"/> White <input type="radio"/> Asian Indian <input type="radio"/> Black or Negro <input type="radio"/> Hawaiian <input type="radio"/> Japanese <input type="radio"/> Guamanian <input type="radio"/> Chinese <input type="radio"/> Samoan <input type="radio"/> Filipino <input type="radio"/> Eskimo <input type="radio"/> Korean <input type="radio"/> Aleut <input type="radio"/> Vietnamese <input type="radio"/> Other — Specify <input type="radio"/> Indian (Amer.) Print tribe →	
5. Age, and month and year of birth a. Print age at last birthday. b. Print month and fill one circle. c. Print year in the spaces, and fill one circle below each number.	a. Age at last birthday: [] b. Month of birth: [] c. Year of birth: [] [] [] [] <input type="radio"/> Jan.—Mar. <input type="radio"/> Apr.—June <input type="radio"/> July—Sept. <input type="radio"/> Oct.—Dec.	a. Age at last birthday: [] b. Month of birth: [] c. Year of birth: [] [] [] [] <input type="radio"/> Jan.—Mar. <input type="radio"/> Apr.—June <input type="radio"/> July—Sept. <input type="radio"/> Oct.—Dec.	
6. Marital status Fill one circle.	<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced	<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced	
7. Is this person of Spanish/Hispanic origin or descent? Fill one circle.	<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Amer., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic	<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Amer., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic	
8. Since February 1, 1980, has this person attended regular school or college at any time? Fill one circle. Count nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or college degree.	<input type="radio"/> No, has not attended since February 1 <input type="radio"/> Yes, public school, public college <input type="radio"/> Yes, private, church-related <input type="radio"/> Yes, private, not church-related	<input type="radio"/> No, has not attended since February 1 <input type="radio"/> Yes, public school, public college <input type="radio"/> Yes, private, church-related <input type="radio"/> Yes, private, not church-related	
9. What is the highest grade (or year) of regular school this person has ever attended? Fill one circle. If now attending school, mark grade person is in. If high school was finished by equivalency test (GED), mark "12."	Highest grade attended: <input type="radio"/> Nursery school <input type="radio"/> Kindergarten Elementary through high school (grade or year) 1 2 3 4 5 6 7 8 9 10 11 12 <input type="radio"/> College (academic year) [] 1 2 3 4 5 6 7 8 or more <input type="radio"/> Never attended school — Skip question 10	Highest grade attended: <input type="radio"/> Nursery school <input type="radio"/> Kindergarten Elementary through high school (grade or year) 1 2 3 4 5 6 7 8 9 10 11 12 <input type="radio"/> College (academic year) [] 1 2 3 4 5 6 7 8 or more <input type="radio"/> Never attended school — Skip question 10	
10. Did this person finish the highest grade (or year) attended? Fill one circle.	<input type="radio"/> Now attending this grade (or year) <input type="radio"/> Finished this grade (or year) <input type="radio"/> Did not finish this grade (or year)	<input type="radio"/> Now attending this grade (or year) <input type="radio"/> Finished this grade (or year) <input type="radio"/> Did not finish this grade (or year)	
CENSUS USE ONLY	A. <input type="radio"/> I <input type="radio"/> N <input type="radio"/> O	CENSUS USE ONLY	A. <input type="radio"/> I <input type="radio"/> N <input type="radio"/> O

NOW PLEASE ANSWER QUESTIONS H1—H12

Page 3

FOR YOUR HOUSEHOLD

PERSON in column 7

Last name _____ First name _____ Middle initial _____

If relative of person in column 1:

☐ Husband/wife ☐ Father/mother
☐ Son/daughter ☐ Other relative
☐ Brother/sister

If not related to person in column 1:

☐ Roomer, boarder ☐ Other nonrelative
☐ Partner, roommate
☐ Paid employee

☐ Male ☐ Female

☐ White ☐ Asian Indian
☐ Black or Negro ☐ Hawaiian
☐ Japanese ☐ Guamanian
☐ Chinese ☐ Samoan
☐ Filipino ☐ Eskimo
☐ Korean ☐ Aleut
☐ Vietnamese ☐ Other — Specify _____
☐ Indian (Amer.)

Print tribe → _____

a. Age at last birthday _____ c. Year of birth _____

b. Month of birth _____

☐ Jan.—Mar. ☐ Apr.—June ☐ July—Sept. ☐ Oct.—Dec.

☐ Now married ☐ Separated
☐ Widowed ☐ Never married
☐ Divorced

☐ No (not Spanish/Hispanic)
☐ Yes, Mexican, Mexican-Amer., Chicano
☐ Yes, Puerto Rican
☐ Yes, Cuban
☐ Yes, other Spanish/Hispanic

☐ No, has not attended since February 1
☐ Yes, public school, public college
☐ Yes, private, church-related
☐ Yes, private, not church-related

Highest grade attended:

☐ Nursery school ☐ Kindergarten

Elementary through high school (grade or year)

1 2 3 4 5 6 7 8 9 10 11 12

College (academic year)

1 2 3 4 5 6 7 8 or more

☐ Never attended school—Skip question 10

☐ Now attending this grade (or year)
☐ Finished this grade (or year)
☐ Did not finish this grade (or year)

CENSUS USE ONLY A. ☐ I ☐ N ☐ O

If you listed more than 7 persons in Question 1, please see note on page 20.

H1. Did you leave anyone out of Question 1 because you were not sure if the person should be listed — for example, a new baby still in the hospital, a lodger who also has another home, or a person who stays here once in a while and has no other home?

- ☐ Yes — On page 20 give name(s) and reason left out.
☐ No

H2. Did you list anyone in Question 1 who is away from home now — for example, on a vacation or in a hospital?

- ☐ Yes — On page 20 give name(s) and reason person is away.
☐ No

H3. Is anyone visiting here who is not already listed?

- ☐ Yes — On page 20 give name of each visitor for whom there is no one at the home address to report the person to a census taker.
☐ No

H4. How many living quarters, occupied and vacant, are at this address?

- ☐ One
☐ 2 apartments or living quarters
☐ 3 apartments or living quarters
☐ 4 apartments or living quarters
☐ 5 apartments or living quarters
☐ 6 apartments or living quarters
☐ 7 apartments or living quarters
☐ 8 apartments or living quarters
☐ 9 apartments or living quarters
☐ 10 or more apartments or living quarters
☐ This is a mobile home or trailer

H5. Do you enter your living quarters —

- ☐ Directly from the outside or through a common or public hall?
☐ Through someone else's living quarters?

H6. Do you have complete plumbing facilities in your living quarters, that is, hot and cold piped water, a flush toilet, and a bathtub or shower?

- ☐ Yes, for this household only
☐ Yes, but also used by another household
☐ No, have some but not all plumbing facilities
☐ No plumbing facilities in living quarters

H7. How many rooms do you have in your living quarters?

Do not count bathrooms, porches, balconies, foyers, halls, or half-rooms.

- ☐ 1 room ☐ 4 rooms ☐ 7 rooms
☐ 2 rooms ☐ 5 rooms ☐ 8 rooms
☐ 3 rooms ☐ 6 rooms ☐ 9 or more rooms

H8. Are your living quarters —

- ☐ Owned or being bought by you or by someone else in this household?
☐ Rented for cash rent?
☐ Occupied without payment of cash rent?

H9. Is this apartment (house) part of a condominium?

- ☐ No
☐ Yes, a condominium

H10. If this is a one-family house —

a. Is the house on a property of 10 or more acres?

- ☐ Yes ☐ No

b. Is any part of the property used as a commercial establishment or medical office?

- ☐ Yes ☐ No

H11. If you live in a one-family house or a condominium unit which you own or are buying —

What is the value of this property, that is, how much do you think this property (house and lot or condominium unit) would sell for if it were for sale?

Do not answer this question if this is —

- ☐ A mobile home or trailer
☐ A house on 10 or more acres
☐ A house with a commercial establishment or medical office on the property

- ☐ Less than \$10,000 ☐ \$50,000 to \$54,999
☐ \$10,000 to \$14,999 ☐ \$55,000 to \$59,999
☐ \$15,000 to \$17,499 ☐ \$60,000 to \$64,999
☐ \$17,500 to \$19,999 ☐ \$65,000 to \$69,999
☐ \$20,000 to \$22,499 ☐ \$70,000 to \$74,999
☐ \$22,500 to \$24,999 ☐ \$75,000 to \$79,999
☐ \$25,000 to \$27,499 ☐ \$80,000 to \$89,999
☐ \$27,500 to \$29,999 ☐ \$90,000 to \$99,999
☐ \$30,000 to \$34,999 ☐ \$100,000 to \$124,999
☐ \$35,000 to \$39,999 ☐ \$125,000 to \$149,999
☐ \$40,000 to \$44,999 ☐ \$150,000 to \$199,999
☐ \$45,000 to \$49,999 ☐ \$200,000 or more

H12. If you pay rent for your living quarters —

What is the monthly rent?

If rent is not paid by the month, see the instruction guide on how to figure a monthly rent.

- ☐ Less than \$50 ☐ \$160 to \$169
☐ \$50 to \$59 ☐ \$170 to \$179
☐ \$60 to \$69 ☐ \$180 to \$189
☐ \$70 to \$79 ☐ \$190 to \$199
☐ \$80 to \$89 ☐ \$200 to \$224
☐ \$90 to \$99 ☐ \$225 to \$249
☐ \$100 to \$109 ☐ \$250 to \$274
☐ \$110 to \$119 ☐ \$275 to \$299
☐ \$120 to \$129 ☐ \$300 to \$349
☐ \$130 to \$139 ☐ \$350 to \$399
☐ \$140 to \$149 ☐ \$400 to \$499
☐ \$150 to \$159 ☐ \$500 or more

FOR CENSUS USE ONLY

A4. Block number	A6. Serial number	B. Type of unit or quarters	For vacant units	D. Months vacant	F. Total persons
		Occupied	C1. Is this unit for —		
		<input type="radio"/> First form	<input type="radio"/> Year round use	<input type="radio"/> Less than 1 month	
		<input type="radio"/> Continuation	<input type="radio"/> Seasonal/Mig. — Skip C2, C3, and D.	<input type="radio"/> 1 up to 2 months	
		Vacant	C2. Vacancy status	<input type="radio"/> 2 up to 6 months	
		<input type="radio"/> Regular	<input type="radio"/> For rent	<input type="radio"/> 6 up to 12 months	
		<input type="radio"/> Usual home elsewhere	<input type="radio"/> For sale only	<input type="radio"/> 1 year up to 2 years	
		Group quarters	<input type="radio"/> Rented or sold, not occupied	<input type="radio"/> 2 or more years	
		<input type="radio"/> First form	<input type="radio"/> Held for occasional use		
		<input type="radio"/> Continuation	<input type="radio"/> Other vacant	E. Indicators	
			C3. Is this unit boarded up?	1. <input type="radio"/> Mail return	
			<input type="radio"/> Yes <input type="radio"/> No	2. <input type="radio"/> Pop./F	

H13. Which best describes this building? <i>Include all apartments, flats, etc., even if vacant.</i>		H21.a. Which fuel is used most for house heating?		CENSUS USE
<input type="radio"/> A mobile home or trailer <input type="radio"/> A one-family house detached from any other house <input type="radio"/> A one-family house attached to one or more houses <input type="radio"/> A building for 2 families <input type="radio"/> A building for 3 or 4 families <input type="radio"/> A building for 5 to 9 families <input type="radio"/> A building for 10 to 19 families <input type="radio"/> A building for 20 to 49 families <input type="radio"/> A building for 50 or more families <input type="radio"/> A boat, tent, van, etc.		<input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc.		H22.a. <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9
		<input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Other fuel <input type="radio"/> No fuel used		
H14a. How many stories (floors) are in this building? <i>Count an attic or basement as a story if it has any finished rooms for living purposes.</i> <input type="radio"/> 1 to 3 — Skip to H15 <input type="radio"/> 4 to 6 <input type="radio"/> 7 to 12 <input type="radio"/> 13 or more stories		b. Which fuel is used most for water heating? <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc.		H22b. <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9
b. Is there a passenger elevator in this building? <input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Other fuel <input type="radio"/> No fuel used		
H15a. Is this building — <input type="radio"/> On a city or suburban lot, or on a place of less than 1 acre? — Skip to H16 <input type="radio"/> On a place of 1 to 9 acres? <input type="radio"/> On a place of 10 or more acres?		c. Which fuel is used most for cooking? <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc.		H22c. <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9
b. Last year, 1979, did sales of crops, livestock, and other farm products from this place amount to — <input type="radio"/> Less than \$50 (or None) <input type="radio"/> \$50 to \$249 <input type="radio"/> \$250 to \$599 <input type="radio"/> \$600 to \$999 <input type="radio"/> \$1,000 to \$2,499 <input type="radio"/> \$2,500 or more		H22. What are the costs of utilities and fuels for your living quarters? a. Electricity \$.00 OR <input type="radio"/> Included in rent or no charge <i>Average monthly cost</i> <input type="radio"/> Electricity not used		
		b. Gas \$.00 OR <input type="radio"/> Included in rent or no charge <i>Average monthly cost</i> <input type="radio"/> Gas not used		H22d. <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9
		c. Water \$.00 OR <input type="radio"/> Included in rent or no charge <i>Yearly cost</i> <input type="radio"/> These fuels not used		
		d. Oil, coal, kerosene, wood, etc. \$.00 OR <input type="radio"/> Included in rent or no charge <i>Yearly cost</i> <input type="radio"/> These fuels not used		
H16. Do you get water from — <input type="radio"/> A public system (city water department, etc.) or private company? <input type="radio"/> An individual drilled well? <input type="radio"/> An individual dug well? <input type="radio"/> Some other source (a spring, creek, river, cistern, etc.)?		H23. Do you have complete kitchen facilities? Complete kitchen facilities are a sink with piped water, a range or cookstove, and a refrigerator. <input type="radio"/> Yes <input type="radio"/> No		
H17. Is this building connected to a public sewer? <input type="radio"/> Yes, connected to public sewer <input type="radio"/> No, connected to septic tank or cesspool <input type="radio"/> No, use other means		H24. How many bedrooms do you have? <i>Count rooms used mainly for sleeping even if used also for other purposes.</i> <input type="radio"/> No bedroom <input type="radio"/> 1 bedroom <input type="radio"/> 2 bedrooms <input type="radio"/> 3 bedrooms <input type="radio"/> 4 bedrooms <input type="radio"/> 5 or more bedrooms		
H18. About when was this building originally built? Mark when the building was first constructed, not when it was remodeled, added to, or converted. <input type="radio"/> 1979 or 1980 <input type="radio"/> 1975 to 1978 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1940 to 1949 <input type="radio"/> 1939 or earlier		H25. How many bathrooms do you have? <i>A complete bathroom is a room with flush toilet, bathtub or shower, and wash basin with piped water.</i> <i>A half bathroom has at least a flush toilet or bathtub or shower, but does not have all the facilities for a complete bathroom.</i> <input type="radio"/> No bathroom, or only a half bathroom <input type="radio"/> 1 complete bathroom <input type="radio"/> 1 complete bathroom, plus half bath(s) <input type="radio"/> 2 or more complete bathrooms		
H19. When did the person listed in column 1 move into this house (or apartment)? <input type="radio"/> 1979 or 1980 <input type="radio"/> 1975 to 1978 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1949 or earlier <input type="radio"/> Always lived here		H26. Do you have a telephone in your living quarters? <input type="radio"/> Yes <input type="radio"/> No		
H20. How are your living quarters heated? <i>Fill one circle for the kind of heat used most.</i> <input type="radio"/> Steam or hot water system <input type="radio"/> Central warm-air furnace with ducts to the individual rooms (Do not count electric heat pumps here) <input type="radio"/> Electric heat pump <input type="radio"/> Other built-in electric units (permanently installed in wall, ceiling,		H27. Do you have air conditioning? <input type="radio"/> Yes, a central air-conditioning system <input type="radio"/> Yes, 1 individual room unit <input type="radio"/> Yes, 2 or more individual room units <input type="radio"/> No		
		H28. How many automobiles are kept at home for use by members of your household? <input type="radio"/> None <input type="radio"/> 1 automobile <input type="radio"/> 2 automobiles <input type="radio"/> 3 or more automobiles		
		H29. How many vans or trucks of one-ton capacity or less are kept at home for use by members of your household? <input type="radio"/> None <input type="radio"/> 1 van or truck <input type="radio"/> 2 vans or trucks <input type="radio"/> 3 or more vans or trucks		

ning gas, oil, or kerosene
 urning gas, oil, or kerosene (not portable);
 heaters of any kind

FOR YOUR HOUSEHOLD

Page 5

Please answer H30–H32 if you live in a one-family house which you own or are buying, unless this is –

- A mobile home or trailer
- A house on 10 or more acres
- A condominium unit
- A house with a commercial establishment or medical office on the property

If any of these, or if you rent your unit or this is a multi-family structure, skip H30 to H32 and turn to page 6.

H30. What were the real estate taxes on this property last year?

\$ _____ .00 OR ☐ None

H31. What is the annual premium for fire and hazard insurance on this property?

\$ _____ .00 OR ☐ None

H32a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on this property?

- ☐ Yes, mortgage, deed of trust, or similar debt
- ☐ Yes, contract to purchase
- ☐ No — Skip to page 6

b. Do you have a second or junior mortgage on this property?

- ☐ Yes ☐ No

c. How much is your total regular monthly payment to the lender?

Also include payments on a contract to purchase and to lenders holding second or junior mortgages on this property.

\$ _____ .00 OR ☐ No regular payment required — Skip to page 6

d. Does your regular monthly payment (amount entered in H32c) include payments for real estate taxes on this property?

- ☐ Yes, taxes included in payment
- ☐ No, taxes paid separately or taxes not required

e. Does your regular monthly payment (amount entered in H32c) include payments for fire and hazard insurance on this property?

- ☐ Yes, insurance included in payment
- ☐ No, insurance paid separately or no insurance

Please turn to page 6

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①	2.	4.	②	2.	4.	③	2.	4.
S.S.	0 0	0 0 0	S.S.	0 0	0 0 0	S.S.	0 0	0 0 0
Yes	1 1	1 1 1	Yes	1 1	1 1 1	Yes	1 1	1 1 1
0	2 2	2 2 2	0	2 2	2 2 2	0	2 2	2 2 2
No	3 3	3 3 3	No	3 3	3 3 3	No	3 3	3 3 3
0	4 4	4 4 4	0	4 4	4 4 4	0	4 4	4 4 4
0	5 5	5 5 5	0	5 5	5 5 5	0	5 5	5 5 5
0	6 6	6 6 6	0	6 6	6 6 6	0	6 6	6 6 6
0	7 7	7 7 7	0	7 7	7 7 7	0	7 7	7 7 7
0	8 8	8 8 8	0	8 8	8 8 8	0	8 8	8 8 8
0	9 9	9 9 9	0	9 9	9 9 9	0	9 9	9 9 9
④	2.	4.	⑤	2.	4.	⑥	2.	4.
S.S.	0 0	0 0 0	S.S.	0 0	0 0 0	S.S.	0 0	0 0 0
Yes	1 1	1 1 1	Yes	1 1	1 1 1	Yes	1 1	1 1 1
0	2 2	2 2 2	0	2 2	2 2 2	0	2 2	2 2 2
No	3 3	3 3 3	No	3 3	3 3 3	No	3 3	3 3 3
0	4 4	4 4 4	0	4 4	4 4 4	0	4 4	4 4 4
0	5 5	5 5 5	0	5 5	5 5 5	0	5 5	5 5 5
0	6 6	6 6 6	0	6 6	6 6 6	0	6 6	6 6 6
0	7 7	7 7 7	0	7 7	7 7 7	0	7 7	7 7 7
0	8 8	8 8 8	0	8 8	8 8 8	0	8 8	8 8 8
0	9 9	9 9 9	0	9 9	9 9 9	0	9 9	9 9 9
⑦	2.	4.	GQ.	H30.	H31.	H32c.		
S.S.	0 0	0 0 0	0 0	0 0 0 0	0 0 0	0 0 0 0		
Yes	1 1	1 1 1	1 1	1 1 1 1	1 1 1	1 1 1 1		
0	2 2	2 2 2	2 2	2 2 2 2	2 2 2	2 2 2 2		
No	3 3	3 3 3	3 3	3 3 3 3	3 3 3	3 3 3 3		
0	4 4	4 4 4	4 4	4 4 4 4	4 4 4	4 4 4 4		
0	5 5	5 5 5	5 5	5 5 5 5	5 5 5	5 5 5 5		
0	6 6	6 6 6	6 6	6 6 6 6	6 6 6	6 6 6 6		
0	7 7	7 7 7	7 7	7 7 7 7	7 7 7	7 7 7 7		
0	8 8	8 8 8	8 8	8 8 8 8	8 8 8	8 8 8 8		
0	9 9	9 9 9	9 9	9 9 9 9	9 9 9	9 9 9 9		

Page 6

ANSWER THESE QUESTIONS FOR

<p>Name of Person 1 on page 2:</p> <p>-----</p> <p style="text-align: center;">Last name First name Middle initial</p> <p>11. In what State or foreign country was this person born? <i>Print the State where this person's mother was living when this person was born. Do not give the location of the hospital unless the mother's home and the hospital were in the same State.</i></p> <p>-----</p> <p style="text-align: center;"><i>Name of State or foreign country; or Puerto Rico, Guam, etc.</i></p> <p>12. If this person was born in a foreign country — a. Is this person a naturalized citizen of the United States?</p> <p><input type="radio"/> Yes, a naturalized citizen <input type="radio"/> No, not a citizen <input type="radio"/> Born abroad of American parents</p> <p>b. When did this person come to the United States to stay?</p> <p><input type="radio"/> 1975 to 1980 <input type="radio"/> 1965 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1960 to 1964 <input type="radio"/> Before 1950</p> <p>13a. Does this person speak a language other than English at home?</p> <p><input type="radio"/> Yes <input type="radio"/> No, only speaks English — <i>Skip to 14</i></p> <p>b. What is this language?</p> <p>-----</p> <p style="text-align: center;"><i>(For example — Chinese, Italian, Spanish, etc.)</i></p> <p>c. How well does this person speak English?</p> <p><input type="radio"/> Very well <input type="radio"/> Not well <input type="radio"/> Well <input type="radio"/> Not at all</p> <p>14. What is this person's ancestry? If uncertain about how to report ancestry, see instruction guide.</p> <p>-----</p> <p style="text-align: center;"><i>(For example: Afro-Amer., English, French, German, Honduran, Hungarian, Irish, Italian, Jamaican, Korean, Lebanese, Mexican, Nigerian, Polish, Ukrainian, Venezuelan, etc.)</i></p> <p>15a. Did this person live in this house five years ago (April 1, 1975)? <i>If in college or Armed Forces in April 1975, report place of residence there.</i></p> <p><input type="radio"/> Born April 1975 or later — <i>Turn to next page for next person</i> <input type="radio"/> Yes, this house — <i>Skip to 16</i> <input type="radio"/> No, different house</p> <p>b. Where did this person live five years ago (April 1, 1975)?</p> <p>(1) State, foreign country, Puerto Rico, Guam, etc.: -----</p> <p>(2) County: -----</p> <p>(3) City, town, village, etc.: -----</p> <p>(4) Inside the incorporated (legal) limits of that city, town, village, etc.?</p> <p><input type="radio"/> Yes <input type="radio"/> No, in unincorporated area</p>	<p>16. When was this person born?</p> <p><input type="radio"/> Born before April 1965 — <i>Please go on with questions 17-33</i></p> <p><input type="radio"/> Born April 1965 or later — <i>Turn to next page for next person</i></p> <p>17. In April 1975 (five years ago) was this person —</p> <p>a. On active duty in the Armed Forces?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>b. Attending college?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>c. Working at a job or business?</p> <p><input type="radio"/> Yes, full time <input type="radio"/> No <input type="radio"/> Yes, part time</p> <p>18a. Is this person a veteran of active-duty military service in the Armed Forces of the United States? <i>If service was in National Guard or Reserves only, see instruction guide.</i></p> <p><input type="radio"/> Yes <input type="radio"/> No — <i>Skip to 19</i></p> <p>b. Was active-duty military service during — <i>Fill a circle for each period in which this person served.</i></p> <p><input type="radio"/> May 1975 or later <input type="radio"/> Vietnam era (August 1964–April 1975) <input type="radio"/> February 1955–July 1964 <input type="radio"/> Korean conflict (June 1950–January 1955) <input type="radio"/> World War II (September 1940–July 1947) <input type="radio"/> World War I (April 1917–November 1918) <input type="radio"/> Any other time</p> <p>19. Does this person have a physical, mental, or other health condition which has lasted for 6 or more months and which ...</p> <p>a. Limits the kind or amount of work this person can do at a job? Yes No <input type="radio"/> <input type="radio"/></p> <p>b. Prevents this person from working at a job? <input type="radio"/> <input type="radio"/></p> <p>c. Limits or prevents this person from using public transportation? <input type="radio"/> <input type="radio"/></p> <p>20. If this person is a female — None 1 2 3 4 5 6 How many babies has she ever had, not counting stillbirths? <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/></p> <p><i>Do not count her stepchildren or children she has adopted.</i> 7 8 9 10 11 12 or more <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/></p> <p>21. If this person has ever been married —</p> <p>a. Has this person been married more than once?</p> <p><input type="radio"/> Once <input type="radio"/> More than once</p> <p>b. Month and year of marriage? Month and year of first marriage?</p> <p>(Month) (Year) (Month) (Year)</p> <p>c. If married more than once — Did the first marriage end because of the death of the husband (or wife)?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>	<p>22a. Did this person work at any time last week?</p> <p><input type="radio"/> Yes — <i>Fill this circle if this person worked full time or part time. (Count part-time work such as delivering papers, or helping without pay in a family business or farm. Also count active duty in the Armed Forces.)</i> <input type="radio"/> No — <i>Fill this circle if this person did not work, or did only own housework, school work, or volunteer work.</i></p> <p style="text-align: center;"><i>Skip to 25</i></p> <p>b. How many hours did this person work last week (at all jobs)? <i>Subtract any time off; add overtime or extra hours worked.</i></p> <p style="text-align: center;">Hours <input type="text"/></p> <p>23. At what location did this person work last week? <i>If this person worked at more than one location, print where he or she worked most last week.</i> <i>If one location cannot be specified, see instruction guide.</i></p> <p>a. Address (Number and street) -----</p> <p><i>If street address is not known, enter the building name, shopping center, or other physical location description.</i></p> <p>b. Name of city, town, village, borough, etc. -----</p> <p>c. Is the place of work inside the incorporated (legal) limits of that city, town, village, borough, etc.?</p> <p><input type="radio"/> Yes <input type="radio"/> No, in unincorporated area</p> <p>d. County -----</p> <p>e. State ----- f. ZIP Code -----</p> <p>24a. Last week, how long did it usually take this person to get from home to work (one way)?</p> <p style="text-align: center;">Minutes <input type="text"/></p> <p>b. How did this person usually get to work last week? <i>If this person used more than one method, give the one usually used for most of the distance.</i></p> <p><input type="radio"/> Car <input type="radio"/> Taxicab <input type="radio"/> Truck <input type="radio"/> Motorcycle <input type="radio"/> Van <input type="radio"/> Bicycle <input type="radio"/> Bus or streetcar <input type="radio"/> Walked only <input type="radio"/> Railroad <input type="radio"/> Worked at home <input type="radio"/> Subway or elevated <input type="radio"/> Other — <i>Specify</i></p> <p><i>If car, truck, or van in 24b, go to 24c. Otherwise, skip to 28.</i></p>					
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Per. No.	11.	13b.	14.	15b.	23.	VL	24a.
1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
2	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
3	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
4	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
5	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
6	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
7	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
8	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
9	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
0	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9	9 9 9

PERSON 1 ON PAGE 2

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<p>c. When going to work last week, did this person usually —</p> <p><input type="radio"/> Drive alone — Skip to 28 <input type="radio"/> Drive others only</p> <p><input type="radio"/> Share driving <input type="radio"/> Ride as passenger only</p>	<p>CENSUS USE</p>	<p>31a. Last year (1979), did this person work, even for a few days, at a paid job or in a business or farm?</p> <p><input type="radio"/> Yes <input type="radio"/> No — Skip to 31d</p>	<p>CENSUS USE ONLY</p>
<p>d. How many people, including this person, usually rode to work in the car, truck, or van last week?</p> <p><input type="radio"/> 2 <input type="radio"/> 4 <input type="radio"/> 6</p> <p><input type="radio"/> 3 <input type="radio"/> 5 <input type="radio"/> 7 or more</p> <p>After answering 24d, skip to 28.</p>	<p>21b.</p>	<p>b. How many weeks did this person work in 1979? Count paid vacation, paid sick leave, and military service.</p> <p>Weeks</p>	<p>31b. 31c. 31d.</p>
<p>25. Was this person temporarily absent or on layoff from a job or business last week?</p> <p><input type="radio"/> Yes, on layoff</p> <p><input type="radio"/> Yes, on vacation, temporary illness, labor dispute, etc.</p> <p><input type="radio"/> No</p>	<p>21b.</p>	<p>c. During the weeks worked in 1979, how many hours did this person usually work each week?</p> <p>Hours</p>	<p>31b. 31c. 31d.</p>
<p>26a. Has this person been looking for work during the last 4 weeks?</p> <p><input type="radio"/> Yes <input type="radio"/> No — Skip to 27</p> <p>b. Could this person have taken a job last week?</p> <p><input type="radio"/> No, already has a job</p> <p><input type="radio"/> No, temporarily ill</p> <p><input type="radio"/> No, other reasons (in school, etc.)</p> <p><input type="radio"/> Yes, could have taken a job</p>	<p>22b.</p>	<p>d. Of the weeks not worked in 1979 (if any), how many weeks was this person looking for work or on layoff from a job?</p> <p>Weeks</p>	<p>32a. 32b.</p>
<p>27. When did this person last work, even for a few days?</p> <p><input type="radio"/> 1980 <input type="radio"/> 1978 <input type="radio"/> 1970 to 1974</p> <p><input type="radio"/> 1979 <input type="radio"/> 1975 to 1977 <input type="radio"/> 1969 or earlier</p> <p><input type="radio"/> Never worked</p> <p>Skip to 31d</p>	<p>28.</p>	<p>32. Income in 1979 — Fill circles and print dollar amounts. If net income was a loss, write "Loss" above the dollar amount. If exact amount is not known, give best estimate. For income received jointly by household members, see instruction guide.</p> <p>During 1979 did this person receive any income from the following sources?</p> <p>If "Yes" to any of the sources below — How much did this person receive for the entire year?</p>	<p>32c. 32d.</p>
<p>28–30. Current or most recent job activity</p> <p>Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for last job or business since 1975.</p>	<p>28.</p>	<p>a. Wages, salary, commissions, bonuses, or tips from all jobs . . . Report amount before deductions for taxes, bonds, dues, or other items.</p> <p><input type="radio"/> Yes → \$.00</p> <p><input type="radio"/> No (Annual amount — Dollars)</p>	<p>32c. 32d.</p>
<p>28. Industry</p> <p>a. For whom did this person work? If now on active duty in the Armed Forces, print "AF" and skip to question 31.</p> <p>(Name of company, business, organization, or other employer)</p>	<p>28.</p>	<p>b. Own nonfarm business, partnership, or professional practice . . . Report net income after business expenses.</p> <p><input type="radio"/> Yes → \$.00</p> <p><input type="radio"/> No (Annual amount — Dollars)</p>	<p>32c. 32d.</p>
<p>b. What kind of business or industry was this? Describe the activity at location where employed.</p> <p>(For example: Hospital, newspaper publishing, mail order house, auto engine manufacturing, breakfast cereal manufacturing)</p>	<p>28.</p>	<p>c. Own farm . . . Report net income after operating expenses. Include earnings as a tenant farmer or sharecropper.</p> <p><input type="radio"/> Yes → \$.00</p> <p><input type="radio"/> No (Annual amount — Dollars)</p>	<p>32e. 32f.</p>
<p>c. Is this mainly — (Fill one circle)</p> <p><input type="radio"/> Manufacturing <input type="radio"/> Retail trade</p> <p><input type="radio"/> Wholesale trade <input type="radio"/> Other — (agriculture, construction, service, government, etc.)</p>	<p>28.</p>	<p>d. Interest, dividends, royalties, or net rental income . . . Report even small amounts credited to an account.</p> <p><input type="radio"/> Yes → \$.00</p> <p><input type="radio"/> No (Annual amount — Dollars)</p>	<p>32e. 32f.</p>
<p>29. Occupation</p> <p>a. What kind of work was this person doing?</p> <p>(For example: Registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, grinder operator)</p>	<p>29.</p>	<p>e. Social Security or Railroad Retirement . . .</p> <p><input type="radio"/> Yes → \$.00</p> <p><input type="radio"/> No (Annual amount — Dollars)</p>	<p>32g. 33.</p>
<p>b. What were this person's most important activities or duties?</p> <p>(For example: Patient care, directing hiring policies, supervising order clerks, assembling engines, operating grinding mill)</p>	<p>29.</p>	<p>f. Supplemental Security (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments . . .</p> <p><input type="radio"/> Yes → \$.00</p> <p><input type="radio"/> No (Annual amount — Dollars)</p>	<p>32g. 33.</p>
<p>30. Was this person — (Fill one circle)</p> <p>Employee of private company, business, or individual, for wages, salary, or commissions . . . <input type="radio"/></p> <p>Federal government employee . . . <input type="radio"/></p> <p>State government employee . . . <input type="radio"/></p> <p>Local government employee (city, county, etc.) . . . <input type="radio"/></p> <p>Self-employed in own business, professional practice, or farm —</p> <p>Own business not incorporated . . . <input type="radio"/></p> <p>Own business incorporated . . . <input type="radio"/></p> <p>Working without pay in family business or farm . . . <input type="radio"/></p>	<p>29.</p>	<p>g. Unemployment compensation, veterans' payments, pensions, alimony or child support, or any other sources of income received regularly . . . Exclude lump-sum payments such as money from an inheritance or the sale of a home.</p> <p><input type="radio"/> Yes → \$.00</p> <p><input type="radio"/> No (Annual amount — Dollars)</p>	<p>32g. 33.</p>
		<p>33. What was this person's total income in 1979? Add entries in questions 32a through g; subtract any losses. \$.00 (Annual amount — Dollars) If total amount was a loss, write "Loss" above amount. OR <input type="radio"/> None</p>	

→ Please turn to the next page and answer the questions for Person 2 on page 2

Appendix E.—Publication and Computer Tape Program

GENERAL	E-1
PUBLICATIONS	E-1
Population and Housing Census Reports	E-1
PHC80-1, Block Statistics	E-1
PHC80-2, Census Tracts	E-2
PHC80-3, Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas	E-2
PHC80-4, Congressional Districts of the 98th Congress	E-2
PHC80-S1-1, Provisional Estimates of Social, Economic, and Housing Characteristics	E-2
PHC80-S2, Advance Estimates of Social, Economic, and Housing Characteristics	E-2
Population Census Reports	E-2
PC80-1, Volume 1, Characteristics of the Population	E-2
PC80-1-A, Chapter A, Number of Inhabitants	E-2
PC80-1-B, Chapter B, General Population Characteristics	E-2
PC80-1-C, Chapter C, General Social and Economic Characteristics	E-3
PC80-1-D, Chapter D, Detailed Population Characteristics	E-3
PC80-2, Volume 2, Subject Reports	E-3
PC80-S1, Supplementary Reports	E-3
Housing Census Reports	E-3
HC80-1, Volume 1, Characteristics of Housing Units	E-3
HC80-1-A, Chapter A, General Housing Characteristics	E-3
HC80-1-B, Chapter B, Detailed Housing Characteristics	E-3
HC80-2, Volume 2, Metropolitan Housing Characteristics	E-3
HC80-3, Volume 3, Subject Reports	E-3
HC80-4, Volume 4, Components of Inventory Change	E-3

PUBLICATIONS—Con.	
HC80-5, Volume 5, Residential Finance	E-4
HC80-S1-1, Supplementary Reports	E-4
Evaluation and Reference Reports	E-4
PHC80-E, Evaluation and Research Reports	E-4
PHC80-R, Reference Reports	E-4
PHC80-R1, Users' Guide	E-4
PHC80-R2, History	E-4
PHC80-R3, Alphabetical Index of Industries and Occupations	E-4
PHC80-R4, Classified Index of Industries and Occupations	E-4
PHC80-R5, Geographic Identification Code Scheme	E-4
COMPUTER TAPES	E-4
Summary Tape Files	E-4
STF 1	E-4
STF 2	E-4
STF 3	E-4
STF 4	E-5
STF 5	E-5
Other Computer Tape Files	E-5
P.L. 94-171, Population Counts	E-5
Master Area Reference Files 1 and 2 (MARF)	E-5
Geographic Base File/Dual Independent Map Encoding (GBF/DIME)	E-5
Public-Use Microdata Samples	E-5
Census/EEO Special File	E-5
MAPS	E-5
MICROFICHE	E-5
STF 1 Microfiche	E-5
STF 3 Microfiche	E-5
P.L. 94-171 Counts Microfiche	E-5

GENERAL

The results of the 1980 Census of Population and Housing are issued in three forms: printed reports, computer tape

files, and microfiche. Most of the reports listed are issued on a flow basis through 1983. A few may be issued later, such as Subject Reports and Evaluation and Reference Reports.

The publications of the 1980 census are released under three subject titles: *1980 Census of Population and Housing*, *1980 Census of Population*, and *1980 Census of Housing*. The description of the publication program below is organized in sections, by census title, followed by the reports under each title. It should be noted that a number of population census reports contain some housing data and a number of housing census reports contain some population data. Following the description of the publication program are sections on computer tapes, maps, and microfiche.

The data product descriptions include listings of geographic areas for which data are summarized in that product. Note that the term "place" refers to incorporated places and census designated (or unincorporated) places, as well as towns and townships in 11 States (the 6 New England States, the 3 Middle Atlantic States, Michigan, and Wisconsin).

Order forms for these materials are available, subject to availability of the data product, from Data User Services Division, Customer Services, Bureau of the Census, Washington, D.C. 20233; Census Bureau Regional Offices; U.S. Department of Commerce District Offices; and State Data Centers. After issuance, census reports are on file in many libraries and are available for examination at any Department of Commerce District Office or Census Bureau Regional Office.

PUBLICATIONS

Population and Housing Census Reports

PHC80-1, Block Statistics—These reports, which are issued on microfiche rather

than in print form, present population and housing unit totals and statistics on selected characteristics which are based on complete-count tabulations. Data are shown for blocks in urbanized areas and selected adjacent areas, for blocks in places of 10,000 or more inhabitants, and for blocks in areas which contracted with the Census Bureau to provide block statistics.

The set of reports consists of 374 sets of microfiche and includes a report for each standard metropolitan statistical area (SMSA), showing blocked areas within the SMSA, and a report for each State and for Puerto Rico, showing blocked areas outside SMSA's. In addition to microfiche, printed detailed maps showing the blocks covered by the particular report are available as well as a U.S. Summary, which is an index to the set.

PHC80-2, Census Tracts—Statistics for most of the population and housing subjects included in the 1980 census are presented for census tracts in SMSA's and in other tracted areas. Both complete-count data and sample data are included. Most statistics are presented by race and Spanish origin for areas with at least a specified number of persons in the relevant population group.

There is one report for each SMSA, as well as one for each of the States and Puerto Rico which have tracted areas outside SMSA's. In addition, maps showing the boundaries and identification numbers of census tracts in the SMSA are available as well as a U.S. Summary, which is an index to the set.

PHC80-3, Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas—Statistics are presented on total population and on complete-count and sample population characteristics such as age, race, education, disability, ability to speak English, labor force, and income, and on total housing units and housing characteristics such as value, age of structure, and rent. These statistics are shown for the following areas or their equivalents: States, SMSA's, counties, county subdivisions (those which are functioning general-purpose local governments), and incorporated places.

There is one report for each State, the District of Columbia, and Puerto Rico.

This series does not include a U.S. Summary.

PHC80-4, Congressional Districts of the 98th Congress—These reports present complete-count and sample data for congressional districts of the 98th Congress. The reports reflect redistricting based on the 1982 elections. One report is issued for each of the 50 States and the District of Columbia.

PHC80-S1-1, Provisional Estimates of Social, Economic, and Housing Characteristics—This report presents provisional estimates based on sample data collected in the 1980 census. Data on social, economic, and housing characteristics are shown for the United States as a whole, each State, the District of Columbia, and SMSA's of 1 million or more inhabitants.

These data are based on a special subsample of the full census sample. The sample, which represents about 1.6 percent of the total population, was developed to provide users with initial data on characteristics of the population and housing units for the Nation and large areas.

PHC80-S2, Advance Estimates of Social, Economic, and Housing Characteristics—These reports present advance sample data from the 1980 census including such social and economic characteristics of the population as education, migration, labor force, and income as well as housing characteristics such as structural information, mortgage, and gross rent.

The set consists of 50 paperbound reports and includes one report for each State and the District of Columbia. No report will be issued for the United States as a whole.

Each report presents population and housing characteristics for the State, its counties or comparable areas, and places of 25,000 or more inhabitants. Selected data are shown for four race groups (White; Black; combined American Indian, Eskimo, and Aleut; and Asian and Pacific Islander) as well as for persons of Spanish origin.

Population Census Reports

PC80-1, Volume 1, Characteristics of the Population—This volume presents final

population counts and statistics on population characteristics. It consists of reports for the following 57 areas: the United States, each of the 50 States, the District of Columbia, Puerto Rico, and the Outlying Areas—Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands. The volume consists of four chapters for each area, chapters A, B, C, and D. Chapters A and B present data collected on a complete-count basis, and chapters C and D present estimates based on sample information, except for the Outlying Areas where all data were collected on a complete-count basis.

The population totals presented in chapters A and B may differ from the counts presented earlier in the PHC80-V reports because corrections were made for errors found after the PHC80-V reports were issued. Chapters B, C, and D present statistics by race and Spanish origin for areas with at least a specified number of the relevant population group.

The U.S. Summary reports present statistics for the United States, regions, divisions, States, and selected areas below the State level. The State or equivalent Area reports (which include the District of Columbia, Puerto Rico, and the Outlying Areas) present statistics for the State or equivalent area and its subdivisions.

Statistics for each of the 57 areas are issued in separate paperbound reports of chapters A, B, C, and D.

PC80-1-A, Chapter A, Number of Inhabitants—Final population counts are shown for the following areas or their equivalents: States, counties, county subdivisions, incorporated places and census designated places, standard consolidated statistical areas (SCSA's), SMSA's, and urbanized areas. Selected tables contain population counts by urban and rural residence. Many tables contain population counts from previous censuses.

PC80-1-B, Chapter B, General Population Characteristics—Statistics on household relationship, age, race, Spanish origin, sex, and marital status are shown for the following areas or their equivalents: States, counties (by total and rural residence), county subdivisions, places of 1,000 or more inhabitants, SCSA's,

SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages.

PC80-1-C, Chapter C, General Social and Economic Characteristics—Statistics are presented on nativity, State or country of birth, citizenship and year of immigration for the foreign-born population, language spoken at home and ability to speak English, ancestry, fertility, family composition, type of group quarters, marital history, residence in 1975, journey to work, school enrollment, years of school completed, disability, veteran status, labor force status, occupation, industry, class of worker, labor force status in 1979, income in 1979, and poverty status in 1979. In addition, data on subjects shown in the PC80-1-B reports are presented in this report in more detail.

Each subject is shown for some or all of the following areas or their equivalents: States, counties (by rural and rural-farm residence), places of 2,500 or more inhabitants, SCSA's, SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages.

PC80-1-D, Chapter D, Detailed Population Characteristics—Statistics on most of the subjects covered in the PC80-1-C reports are presented in this report in considerably greater detail and cross-classified by age, race, Spanish origin, and other characteristics. Each subject is shown for the State or equivalent area, and some subjects are also shown for rural residence at the State level. Most subjects are shown for SMSA's of 250,000 or more inhabitants, and a few are shown for central cities of these SMSA's.

PC80-2, Volume 2, Subject Reports—Each of the reports in this volume focuses on a particular subject and provides highly detailed distributions and cross-classifications on a national, regional, and divisional level. A few reports show statistics for States, SMSA's, large cities, American Indian reservations, or Alaska Native villages. Separate reports are issued on such subjects as racial and ethnic groups, type of residence, fertility, families, marital status, migration, education, employment, occupation, industry, journey to work, income, poverty status, and other topics.

PC80-S1, Supplementary Reports—These reports present special compilations of

1980 census statistics dealing with specific population subjects.

Housing Census Reports

HC80-1, Volume 1, Characteristics of Housing Units—This volume presents final housing unit counts and statistics on housing characteristics. It consists of reports for the following 57 areas: the United States, each of the 50 States, the District of Columbia, Puerto Rico, and the Outlying Areas—Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands. The volume consists of two chapters for each area, chapters A and B. Chapter A presents data collected on a complete-count basis, and chapter B presents estimates based on sample information, except for the Outlying Areas where all data were collected on a complete-count basis.

The housing totals presented in this report may differ from the counts presented earlier in the PHC80-V reports because corrections were made for errors found after the PHC80-V reports were issued. Both chapters present statistics by race and Spanish origin for areas with at least a specified number of the relevant population group.

The U.S. Summary reports present statistics for the United States, regions, divisions, States, and selected areas below the State level. The State or equivalent Area reports (which include the District of Columbia, Puerto Rico, and the Outlying Areas) present statistics for the State or equivalent area and its subdivisions.

Statistics for each of the 57 areas are issued in separate paperbound reports of chapters A and B.

HC80-1-A, Chapter A, General Housing Characteristics—Statistics on units at address, tenure, condominium status, number of rooms, persons per room, plumbing facilities, value, contract rent, and vacancy status are shown for some or all of the following areas or their equivalents: States, counties, county subdivisions, places of 1,000 or more inhabitants, SCSA's, SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages. Selected tables contain housing characteristics by urban and rural residence.

HC80-1-B, Chapter B, Detailed Housing Characteristics—Statistics on units in structure, year moved into unit, year structure built, heating equipment, fuels, air-conditioning, source of water, sewage disposal, gross rent, and selected monthly ownership costs are shown for some or all of the following areas or their equivalents: States, counties, places of 2,500 or more inhabitants, SCSA's, SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages. Selected tables show housing characteristics for rural and rural farm residence at the State and county level. Some subjects included in the HC80-1-A reports are also covered in this report in more detail.

HC80-2, Volume 2, Metropolitan Housing Characteristics—This volume presents statistics on most of the 1980 housing census subjects in considerable detail and cross-classification. Most statistics are presented by race and Spanish origin for areas with at least a specified number of the relevant population group. Data are shown for States or equivalent areas, SMSA's and their central cities, and other cities of 50,000 or more inhabitants.

There is one report for each SMSA and one report for each State and Puerto Rico. The set includes a U.S. Summary report showing these statistics for the United States and regions.

HC80-3, Volume 3, Subject Reports—Each of the reports in this volume focuses on a particular subject and provides highly detailed distributions and cross-classifications on a national, regional, and divisional level. Separate reports are issued on housing of the elderly, mobile homes, and American Indian households.

HC80-4, Volume 4, Components of Inventory Change—This volume consists of two reports presenting statistics on the 1980 characteristics of housing units which existed in 1973, as well as on newly constructed units, conversions, mergers, demolitions, and other additions and losses to the housing inventory between 1973 and 1980. These reports present data derived from a sample survey conducted in the fall of 1980. Data are presented for the United States and regions in report I. Report II has two parts: Part A presents data for that group of SMSA's (not individually identified)

with populations of 1 million or more at the time of the 1970 census, and part B presents data for that group of SMSA's (not individually identified) with populations of less than 1 million at the time of the 1970 census.

HC80-5, Volume 5, Residential Finance—

This volume consists of one report presenting statistics on the financing of non-farm homeowner and rental and vacant properties, including characteristics of the mortgage, property, and owner. The statistics are based on a sample survey conducted in the spring of 1981. Data are presented for the United States and regions. Some data are presented by inside and outside SMSA's and by central cities.

HC80-S1-1, Supplementary Reports—

These reports present statistics from the 1980 Census of Housing on general characteristics of housing units for the 50 States and the District of Columbia, counties, and independent cities.

Evaluation and Reference Reports

PHC80-E, Evaluation and Research Reports—

These reports present the results of the extensive evaluation program conducted as an integral part of the 1980 census. This program relates to such matters as completeness of enumeration and quality of the data on characteristics.

PHC80-R, Reference Reports—These reports present information on the various administrative and methodological aspects of the 1980 census. The series includes:

PHC80-R1, Users' Guide—This report covers subject content, procedures, geography, statistical products, limitations of the data, sources of user assistance, notes on data use, a glossary of terms, and guides for locating data in reports and tape files. The guide is issued in loose-leaf form and sold in parts (R1-A, B, etc.) as they are printed.

PHC80-R2, History—This report describes in detail all phases of the 1980 census, from the earliest planning through all stages to the dissemination of data and evaluation of results. It contains detailed discussion of 1980 census questions and their use in previous decennial censuses.

PHC80-R3, Alphabetical Index of Industries and Occupations—This report was developed primarily for use in classifying responses to the questions on the kind of business (industry) and kind of work (occupation) in which the respondent is engaged. The index lists approximately 20,000 industry and 29,000 occupation titles in alphabetical order.

PHC80-R4, Classified Index of Industries and Occupations—This report defines the industrial and occupational classification systems adopted for the 1980 Census of Population. It presents the individual titles that constitute each of the 231 industry and 503 occupation categories in the classification systems. The individual titles are the same as those shown in the Alphabetical Index. The 1980 occupation classification reflects the new U.S. Standard Occupational Classification (SOC). As in the past, the 1980 industry classification reflects the Standard Industrial Classification (SIC).

PHC80-R5, Geographic Identification Code Scheme—This report identifies the names and related geographic codes for each State, county, minor civil division, place, region, division, SCSA, SMSA, American Indian reservation, and Alaska Native village for which the Census Bureau tabulated data from the 1980 census.

COMPUTER TAPES

Summary Tape Files

In addition to the printed and microfiche reports, results of the 1980 census also are provided on computer tape in the form of summary tape files (STF's). These data products have been designed to provide statistics with greater subject and geographic detail than is feasible or desirable to provide in printed and microfiche reports. The STF data are made available at nominal cost. The data are subject to suppression of certain detail where necessary to protect confidentiality.

There are five STF's (listed below), and the amount of geographic and subject detail presented varies. STF's 1 and 2 contain complete-count data, and STF's 3, 4, and 5 contain sample data. Note that the term "cells" used below refers

to the number of subject statistics provided for each geographic area, and the number of cells is indicative of the detail of the subject content of the file.

Each of the STF's generally consists of two or more files which provide different degrees of geographic detail and, in some cases, race/Spanish origin cross-classification. For each of the files there is a separate tape or tapes for each State, the District of Columbia, and Puerto Rico. Selected files (STF 1 and STF 3) are also produced for Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands. These tapes are issued on a State-by-State basis and are followed by a national summary tape for the particular file. More complete descriptions of the STF's than given in the summaries below can be found in the technical documentation of the specific file and in the PHC80-R1, *Users' Guide*.

STF 1—This STF provides 321 cells of complete-count population and housing data. Data are summarized for the United States, regions, divisions, States, SCSA's, SMSA's, urbanized areas, congressional districts, counties, county subdivisions, places, census tracts, enumeration districts in unblocked areas, and blocks and block groups in blocked areas. The data include those shown in the PHC80-1, PHC80-3 (complete-count), and PC80-1-A reports.

STF 2—This STF contains 2,292 cells of detailed complete-count population and housing data, of which 962 are repeated for each race and Spanish origin group present in the tabulation area. Data are summarized for the United States, regions, divisions, States, SCSA's, SMSA's, urbanized areas, counties, county subdivisions, places of 1,000 or more inhabitants, census tracts, American Indian reservations, and Alaska Native villages. The data include those shown in the PHC80-2 (complete-count), PC80-1-B, and HC80-1-A reports.

STF 3—This STF contains 1,126 cells of data on various population and housing subjects collected on a sample basis. The areas covered are the same as in STF 1, excluding blocks. The data include those shown in the PHC80-3 (sample) reports.

STF 4 This STF is the geographic counterpart of STF 2, but the number of areas of data is greater—approximately 84,000. STF 4 provides data covering virtually all of the population and housing subjects collected on a sample basis, as well as some of the non-sampled subjects. Some of the statistics are repeated for race, Spanish origin, and ancestry groups. Data are summarized for areas similar to those shown in STF 2, except that data for places are limited to those with 2,500 or more inhabitants. The data include those shown in the PHC80-2 (samples), PHC80-1 (all), and HC80-1-B reports.

STF 5 This STF contains over 100,000 areas of data on census population and housing subjects collected on a sample basis and provides detailed tabulations and cross-classifications for States, SMSA's, counties, cities of 40,000 or more inhabitants, and central cities. Most subjects are classified by race and Spanish origin. The data include those shown in the PHC80-1-D and HC80-2 reports.

Other Computer Tape Files

P.L. 94-171, Population Counts In accordance with Public Law (P.L.) 94-171, the Census Bureau provides population tabulations to all States for legislative reapportionment/redistricting. The file is issued on a State-by-State basis. It contains population counts classified by race and Spanish origin. The data are tabulated for the following levels of geography as applicable: States, counties, county subdivisions, incorporated places, census tracts, blocks and block groups in blocked areas, and enumeration districts in unblocked areas. For States participating in the voluntary program to define election precincts in conjunction with the Census Bureau, the data are also tabulated for election precincts.

Master Area Reference Files 1 and 2 (MARE)

MARE 1 This geographic reference file is an extract of STF 1 designed for those who require a master list of geographic codes and areas, along with basic census counts arranged hierarchically from the State down to the block group and enumeration district levels and viewed on a State-by-State basis. The file contains records for States, counties, county subdivisions, places, census tracts, enumeration districts in unblocked areas, and block groups in blocked areas. Each record shows the total population by five race groups, population of Spanish origin, number of housing units, number of households, number of families, and a few other items.

MARE 2 This file is the same as the MARE 1 with the latitude and longitude coordinates for a representative point (centroid) in each block group (BG) or enumeration district (ED) outside block numbered areas.

Geographic Base File/Dual Independent Map Encoding (GBF/DIME)—These files are computer representations of the Metropolitan Map Series, including address ranges and ZIP Codes, which generally cover the urbanized portions of SMSA's. GBF/DIME files are used to assign census geographic codes to addresses (geocoding). The files are available by SMSA.

Public Use Microdata Samples—Public-use microdata samples are computerized files containing most population and housing characteristics as shown on a sample of individual census records. These files contain no names or addresses, and geographic identification is sufficiently broad to protect confidentiality.

There are three mutually exclusive samples, the A sample including 5 percent of all persons and housing units, and the

B and C samples each including 1 percent of all persons and housing units. States and most large SMSA's will be identifiable on one or more of the files. Microdata files allow the user to prepare customized tabulations.

Census/EEO Special File This file provides sample census data with specified relevance to EEO and affirmative action uses. The file contains two tabulations, one with detailed occupational data and the other with years of school completed by age. The data in both tabulations are crossed by sex, race, and Spanish origin. These data are provided for all counties, for all SMSA's, and for places with a population of 50,000 or more.

MAPS

Maps necessary to define areas are generally published and included as part of the corresponding reports. Maps are published for Block Statistics (PHC80-1) and Census Tracts (PHC80-2), but must be purchased separately from the report. Maps necessary to define enumeration districts are available on a cost-of-reproduction basis.

MICROFICHE

Some of the computer tape products are available on microfiche. The STF microfiche are issued for each State or Area and for the United States. These include:

STF 1 Microfiche—Data from STF 1 are presented in tabular form for all the STF 1 geographic levels described previously, except blocks.

STF 3 Microfiche—Data from STF 3 are presented in tabular form for all the STF 3 geographic levels.

P.L. 94-171 Counts Microfiche—The data from the P.L. 94-171 computer file are presented in a listing format.

with populations of 1 million or more at the time of the 1970 census, and part B presents data for that group of SMSA's (not individually identified) with populations of less than 1 million at the time of the 1970 census.

HC80-5, Volume 5, Residential Finance—This volume consists of one report presenting statistics on the financing of non-farm homeowner and rental and vacant properties, including characteristics of the mortgage, property, and owner. The statistics are based on a sample survey conducted in the spring of 1981. Data are presented for the United States and regions. Some data are presented by inside and outside SMSA's and by central cities.

HC80-S1-1, Supplementary Reports—These reports present statistics from the 1980 Census of Housing on general characteristics of housing units for the 50 States and the District of Columbia, counties, and independent cities.

Evaluation and Reference Reports

PHC80-E, Evaluation and Research Reports—These reports present the results of the extensive evaluation program conducted as an integral part of the 1980 census. This program relates to such matters as completeness of enumeration and quality of the data on characteristics.

PHC80-R, Reference Reports—These reports present information on the various administrative and methodological aspects of the 1980 census. The series includes:

PHC80-R1, Users' Guide—This report covers subject content, procedures, geography, statistical products, limitations of the data, sources of user assistance, notes on data use, a glossary of terms, and guides for locating data in reports and tape files. The guide is issued in loose-leaf form and sold in parts (R1-A, B, etc.) as they are printed.

PHC80-R2, History—This report describes in detail all phases of the 1980 census, from the earliest planning through all stages to the dissemination of data and evaluation of results. It contains detailed discussion of 1980 census questions and their use in previous decennial censuses.

PHC80-R3, Alphabetical Index of Industries and Occupations—This report was developed primarily for use in classifying responses to the questions on the kind of business (industry) and kind of work (occupation) in which the respondent is engaged. The index lists approximately 20,000 industry and 29,000 occupation titles in alphabetical order.

PHC80-R4, Classified Index of Industries and Occupations—This report defines the industrial and occupational classification systems adopted for the 1980 Census of Population. It presents the individual titles that constitute each of the 231 industry and 503 occupation categories in the classification systems. The individual titles are the same as those shown in the Alphabetical Index. The 1980 occupation classification reflects the new U.S. Standard Occupational Classification (SOC). As in the past, the 1980 industry classification reflects the Standard Industrial Classification (SIC).

PHC80-R5, Geographic Identification Code Scheme—This report identifies the names and related geographic codes for each State, county, minor civil division, place, region, division, SCSA, SMSA, American Indian reservation, and Alaska Native village for which the Census Bureau tabulated data from the 1980 census.

COMPUTER TAPES

Summary Tape Files

In addition to the printed and microfiche reports, results of the 1980 census also are provided on computer tape in the form of summary tape files (STF's). These data products have been designed to provide statistics with greater subject and geographic detail than is feasible or desirable to provide in printed and microfiche reports. The STF data are made available at nominal cost. The data are subject to suppression of certain detail where necessary to protect confidentiality.

There are five STF's (listed below), and the amount of geographic and subject detail presented varies. STF's 1 and 2 contain complete-count data, and STF's 3, 4, and 5 contain sample data. Note that the term "cells" used below refers

to the number of subject statistics provided for each geographic area, and the number of cells is indicative of the detail of the subject content of the file.

Each of the STF's generally consists of two or more files which provide different degrees of geographic detail and, in some cases, race/Spanish origin cross-classification. For each of the files there is a separate tape or tapes for each State, the District of Columbia, and Puerto Rico. Selected files (STF 1 and STF 3) are also produced for Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands. These tapes are issued on a State-by-State basis and are followed by a national summary tape for the particular file. More complete descriptions of the STF's than given in the summaries below can be found in the technical documentation of the specific file and in the PHC80-R1, *Users' Guide*.

STF 1—This STF provides 321 cells of complete-count population and housing data. Data are summarized for the United States, regions, divisions, States, SCSA's, SMSA's, urbanized areas, congressional districts, counties, county subdivisions, places, census tracts, enumeration districts in unblocked areas, and blocks and block groups in blocked areas. The data include those shown in the PHC80-1, PHC80-3 (complete-count), and PC80-1-A reports.

STF 2—This STF contains 2,292 cells of detailed complete-count population and housing data, of which 962 are repeated for each race and Spanish origin group present in the tabulation area. Data are summarized for the United States, regions, divisions, States, SCSA's, SMSA's, urbanized areas, counties, county subdivisions, places of 1,000 or more inhabitants, census tracts, American Indian reservations, and Alaska Native villages. The data include those shown in the PHC80-2 (complete-count), PC80-1-B, and HC80-1-A reports.

STF 3—This STF contains 1,126 cells of data on various population and housing subjects collected on a sample basis. The areas covered are the same as in STF 1, excluding blocks. The data include those shown in the PHC80-3 (sample) reports.

STF 4—This STF is the geographic counterpart of STF 2, but the number of cells of data is greater (approximately 8,400). STF 4 provides data covering virtually all of the population and housing subjects collected on a sample basis, as well as some of the complete-count subjects. Some of the statistics are repeated for race, Spanish origin, and ancestry groups. Data are summarized for areas similar to those shown in STF 2, except that data for places are limited to those with 2,500 or more inhabitants. The data include those shown in the PHC80-2 (sample), PC80-1-C, and HC80-1-B reports.

STF 5—This STF contains over 100,000 cells of data on various population and housing subjects collected on a sample basis and provides detailed tabulations and cross-classifications for States, SMSA's, counties, cities of 50,000 or more inhabitants and central cities. Most subjects are classified by race and Spanish origin. The data include those shown in the PC80-1-D and HC80-2 reports.

Other Computer Tape Files

P.L. 94-171, Population Counts—In accordance with Public Law (P.L.) 94-171, the Census Bureau provides population tabulations to all States for legislative reapportionment/redistricting. The file is issued on a State-by-State basis. It contains population counts classified by race and Spanish origin. The data are tabulated for the following levels of geography as applicable: States, counties, county subdivisions, incorporated places, census tracts, blocks and block groups in blocked areas, and enumeration districts in unblocked areas. For States participating in the voluntary program to define election precincts in conjunction with the Census Bureau, the data are also tabulated for election precincts.

Master Area Reference Files 1 and 2 (MARF)

MARF 1—This geographic reference file is an extract of STF 1 designed for those who require a master list of geographic codes and areas, along with basic census counts arranged hierarchically from the State down to the block group and enumeration district levels and is issued on a State-by-State basis. The file contains records for States, counties, county subdivisions, places, census tracts, enumeration districts in unblocked areas, and block groups in blocked areas. Each record shows the total population by five race groups, population of Spanish origin, number of housing units, number of households, number of families, and a few other items.

MARF 2—This file is the same as the MARF 1 with the latitude and longitude coordinates for a representative point (centroid) in each block group (BG) or enumeration district (ED) outside block numbered areas.

Geographic Base File/Dual Independent Map Encoding (GBF/DIME)—These files are computer representations of the Metropolitan Map Series, including address ranges and ZIP Codes, which generally cover the urbanized portions of SMSA's. GBF/DIME files are used to assign census geographic codes to addresses (geocoding). The files are available by SMSA.

Public-Use Microdata Samples—Public-use microdata samples are computerized files containing most population and housing characteristics as shown on a sample of individual census records. These files contain no names or addresses, and geographic identification is sufficiently broad to protect confidentiality.

There are three mutually exclusive samples, the A sample including 5 percent of all persons and housing units, and the

B and C samples each including 1 percent of all persons and housing units. States and most large SMSA's will be identifiable on one or more of the files. Microdata files allow the user to prepare customized tabulations.

Census/EEO Special File—This file provides sample census data with specified relevance to EEO and affirmative action uses. The file contains two tabulations, one with detailed occupational data and the other with years of school completed by age. The data in both tabulations are crossed by sex, race, and Spanish origin. These data are provided for all counties, for all SMSA's, and for places with a population of 50,000 or more.

MAPS

Maps necessary to define areas are generally published and included as part of the corresponding reports. Maps are published for Block Statistics (PHC80-1) and Census Tracts (PHC80-2), but must be purchased separately from the report. Maps necessary to define enumeration districts are available on a cost-of-reproduction basis.

MICROFICHE

Some of the computer tape products are available on microfiche. The STF microfiche are issued for each State or Area and for the United States. These include:

STF 1 Microfiche—Data from STF 1 are presented in tabular form for all the STF 1 geographic levels described previously, except blocks.

STF 3 Microfiche—Data from STF 3 are presented in tabular form for all the STF 3 geographic levels.

P.L. 94-171 Counts Microfiche—The data from the P.L. 94-171 computer file are presented in a listing format.

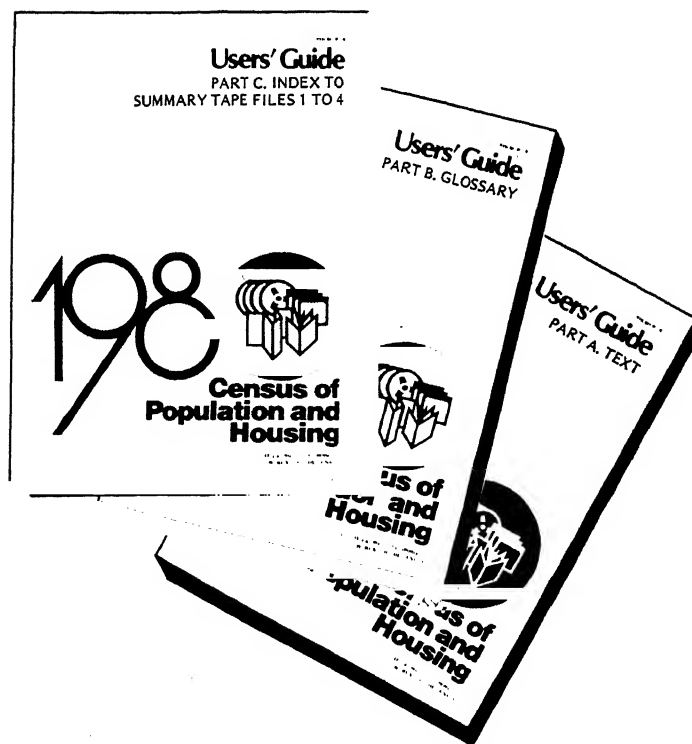
1980 Census of Population and Housing

Users' Guide

The Users' Guide, a reference work on the 1980 census, is now available. It consists of:

- **Part A. Text**—Covers census data subjects; geographic considerations; reports, tapes, maps, and other products; services available to users; and many other topics.
- **Part B. Glossary**—Provides detailed definitions of population, housing, geographic, and technical terms.
- **Part C. Index to Summary Tape Files 1 to 4**—Provides an index, subject-by-subject, to the hundreds of tables in the four major summary tape series. Tells which tables have the desired data and also provides complete descriptions for all tables in these STF's.
- **Sources of Assistance**—Furnishes addresses and phone numbers of public and private sector organizations offering a variety of products and services, such as tape processing, area profiles, training, and reference assistance.
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